

Issaquah (ASDP17-00005)

# GREEN GROTTO TRAFFIC AND PARKING LETTER – RESPONSE TO CITY COMMENTS

**September 24, 2018** 



## JTE. Jake Traffic Engineering, Inc. Mark J. Jacobs, PE (WA and OR), PTOE, President 2614 39<sup>th</sup> Ave. SW - Seattle, WA 98116 - 2503 Tel. 206.762.1978 - Cell 206.799.5692 E-mail jaketraffic@comcast.net







## Mark J. Jacobs, PE, PTOE

## **President**

2614 39th Ave. SW — Seattle, WA 98116 — 2503 Tel. 206.762.1978 - Cell 206.799.5692 E-mail jaketraffic@comcast.net

grant and the control of the control

September 24, 2018

CITY OF ISSAQUAH

Attn: Dave Favour, Development Services Deputy Director

P.O. Box 1307

Issaquah, WA 98027

Re:

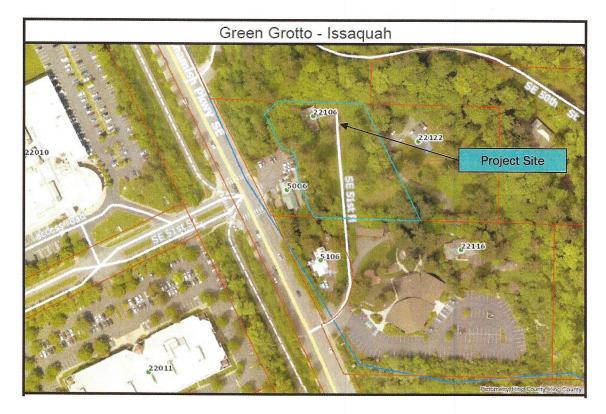
Green Grotto - Issaquah (ASDP17-00005)

Traffic Analysis - Response to City Comments

Dear Mr. Favour,

I have prepared this letter in response to City comments, attached, regarding the Green Grotto retail store to be located at 22106 East Lake Sammamish Parkway in Issaquah. The project converts 1,152 sf of residential building space into a Specialty Retail Marijuana facility. Access to the site is via SE 51st Place which is shared with three other properties. Parking for eight vehicles including one accessible is proposed. A copy of the site plan is attached.

An aerial image of the project site obtained from King County iMap is depicted below.



Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -2-

## **Project History**

The initial project application was submitted in the Summer of 2017. Issaquah completed and provided review comments dated September 13, 2017. The review comments, copy attached, included a request for a Traffic Impact Analysis, see below:

- 2. Please submit a Traffic Impact Analysis. The analysis guidelines are on our website <u>located at this link</u>. The analysis must include the following issues:
  - a. Determine the number of generated trips during the PM peak period. Note: There are no land uses in the ITE Trip Generation Manual that fit the description of this particular use. Study three similar land use types with similar size and location (located on major arterial) to determine the number of site generated trips during the PM peak period.
  - b. Safety of turning movements in and out of the driveway at East Lake Sammamish Parkway and at intersections along the private drive.
  - c. Safety of pedestrians traveling to and from East Lake Sammamish Parkway and along the private driveway including adjacent to the church.
  - d. Recommend improvements to mitigate impacts identified from the analysis. Improvements may include, but not be limited to, vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and pedestrian improvements to the private driveway such as pavement, curb, gutter, sidewalk, and landscape planter strip improvements; other improvements as may be needed.
- Submit a <u>Transportation Concurrency application</u> and pay the fee. The number of new trips can be
  obtained from the above Traffic Impact Analysis and inputted into this application to determine the
  fee.

At the time the City letter was prepared the ITE <u>Trip Generation</u> 10<sup>th</sup> Edition was being published. This resource provides 12 data points for a Marijuana Dispensary during the PM peak hour ten of them are below the average rate line during the critical PM peak hour.

Greg Heath, PE, PTOE, prepared <u>Green Grotto Traffic Scoping</u> dated March 22, 2018. This report correctly calculated the site traffic generation using the <u>Trip Generation</u> 10<sup>th</sup> Edition data and conducted a traffic operational analysis at the East Lake Sammamish Parkway at SE 51<sup>st</sup> Place intersection. The analysis showed the intersection working acceptably and included the adjacent uses site traffic using the shared access.

A second Comment Letter was prepared by the City dated May 17, 2018, copy attached. The pertinent sections of this letter are noted below:

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -3-

2. Please submit a Traffic Impact Analysis. The analysis guidelines are on our website <u>located at this link</u>.

Response to 1<sup>st</sup> resubmittal of traffic information: The city has discretion to require a Traffic Impact Analysis when the proposed trips are less than 30 peak hour trips (applicant response shows 25 trips). A Traffic Impact Analysis is required due to: low sample size (4) in the ITE manual; higher trips at the existing marijuana store at 230 NE Juniper Street; intersection of multiple private drive ways.

The analysis must include and address the following issues:

- a. Project description clarification. The submitted traffic study states on page 2, "The intent clientele of this particular site is to provide for medical distribution of marijuana products and is not intended for retail sales based on discussion with the client." However the application states the use will be a "recreational/medical retail marijuana store". Please clarify the scope of the project. Please also adjust the traffic trips to reflect the intended use of the project.
- b. Determine the number of generated trips and the number of needed parking stalls during the PM peak period. The number of trips proposed by the applicant to be generated by this land use seems low; the November 2017 counts collected on NE Juniper Street in front of the Issaquah Cannabis Company show higher numbers (counts available from Fay Schafi, Public Works Engineering, Fays@issaquahwa.gov).
- c. Please provide a copy of *all* pages of the ITE Trip Generation Manual Land Use 882 (especially the description page).
- d. Study three similar marijuana retail stores to determine the number of site generated trips during the PM peak period and the number of needed parking stalls. One of the stores must be the Issaguah store at 230 NE Juniper Street.
- e. Evaluate driveway safety and operations (intersection of multiple private drive ways; pedestrian safety and circulation from East Lake Sammamish Parkway to building; turning movement conflicts and safety issues at multiple intersections along the private drive, turning movement conflicts in and out of the driveway at East Lake Sammamish Parkway, impacts on E. Lake Sammamish Parkway operations, etc.).
- g. The table of vehicular parking spaces, Chapter 8.10, does not list a marijuana retail store, therefore please provide information to determine the required number of stalls. The process should be similar to the methodology to determine traffic counts: evaluate 3 marijuana retail stores including the 230 NE Juniper Street store to determine the number of parking stalls required to address the peak hour demand. If there is not sufficient parking, identify other parking options such as sharing nearby parking. See the <a href="Central Issaquah parking code">Central Issaquah parking code</a>, Chapter 8.0 for options.
- i. Identify improvements and adjust the proposal as needed to mitigate traffic and parking impacts identified from the traffic and parking analysis. Improvements may include, but not be limited to, vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and pedestrian improvements to the private driveway; parking improvements, other improvements as may be needed.

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -4-

I was retained by the project applicant in August 2018 to provide a second Professional Traffic Engineer expertise, my Resume is attached, regarding the project. My work involved reviewing the City comments and the <u>Green Grotto Traffic Scoping</u> prepared by Greg Heath, PE, PTOE. Greg's report was prepared consistent with Industry Standard.

I prepared and submitted a Technical e-mail to the City on August 23, 2018. My technical e-mail, included in the Appendix, noted that the ITE trip rate data includes 12 data points during the critical PM peak hour that I augmented with two added points for sites I collected data for on the east side of the greater metropolitan area. In addition, I noted some Parking Data as being available for a very similar land use, Liquor Store, and conducted a Safety Inspection. Further elaboration on these items is discussed later in this report.

The City responded via email on September 6, 2018 requesting further Traffic and Parking Analysis be conducted. The City bases for the request were: low sample size (4) in the ITE manual; higher trips at the existing marijuana store at 230 NE Juniper Street; intersection of multiple private drive ways. A Parking Review was also requested.

In response to the City's September 6<sup>th</sup> e-mail, I submitted a technical response to the City on September 7, 2018. My response noted that the City incorrectly states that the ITE data has only four data points; in fact, the ITE data includes 12 data points for the critical PM peak hour. In addition, I provided more information on City parking code information.

A copy of the e-mail correspondence is attached to this letter.

The City referenced their <u>Transportation Impact Analysis Guidelines</u> dated April 8, 2015. These guidelines indicate that the typical Traffic Generation threshold to conduct a Traffic Impact Analysis is 30 net new PM peak hour trips. National <u>Trip Generation</u> data shows that the proposed project would generate less than 30 PM peak hour trips. However, the City requested added information. The following sections of this report provide added documentation on Site Traffic Generation, Access Review/Safety and Parking Information per City request.

## **Trip Generation**

## **Definitions**

A vehicle trip is defined as a single or one direction vehicle movement with either the origin or destination (exiting or entering) inside the proposed development.

Traffic generated by development projects consists of the following types:

Pass-By Trips: Trips made as intermediate stops on the way from an origin to

a primary trip destination.

Diverted Link Trips: Trips attracted from the traffic volume on a roadway within

the vicinity of the generator but which require a diversion from

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -5-

that roadway to another roadway in order to gain access to

the site.

Captured Trips:

Site trips shared by more than one land use in a multi-use

development.

Primary (New) Trips:

Trips made for the specific purpose of using the services of

the project.

## **Trip Generation**

The proposed 1,152 Green Grotto project is expected to generate the vehicular trips during the average weekday, street traffic AM and PM street peak hours as shown in Table 1. The trip generation for the project is calculated using trip rates from the Institute of Transportation Engineers (ITE) <u>Trip Generation</u>, 10<sup>th</sup> Edition, for Marijuana Dispensary (ITE Land Use Code 842). All site trips made by all vehicles for all purposes, including commuter, visitor, and service and delivery vehicle trips are included in the trip generation values.

			te of Trans	sportation E	SAQUAH (# Ingineers	RATION ASDP17-00 Trip Genera ONSE TO CIT	tion 10th E	1.0		
				Trips		Trips			Pass-by	
Time Period	Size (X)	TG Rate	Enter %	Entering	Exit %	Exiting	Total (T)	Pass-by %	Trips	Net Total
Proposed: Mari	juana Dispe	ensary - General	Urban/Su	burban (ITE	LUC 882	. 1,152 sf)				
Weekday	1,152	252.70	50%	145.6	50%	145.6	291.1	20%	58.2	232.9
AM peak hour	1,152	10.44	56%	6.7	44%	5.3	12.0	25%	3.0	9.0
PM peak hour	1.152	21.83	50%	12.6	50%	12.6	25.1	25%	6.3	18.9

Where X = 1,000 sf; T = Trips

The traffic associated with the Green Grotto is projected at 25 weekday PM peak hour trips at the access and 19 to the City street grid. Green Grotto Traffic Scoping also noted 25 PM peak hour trips at the access and did not account for the fact the site traffic would include pass-by traffic or the existing site traffic by the residents of the SFDU to be replaced.

As iterated in my August 23, 2018 e-mail to the City, JTE, Inc. has conducted a number of reports for Marijuana Stores in the past several years. Prior to the 10<sup>th</sup> Edition of the <u>Trip Generation</u> traffic data for this use was limited.

Regarding facility Trip Generation, ITE data exists with 12 data points. I had data collected at a couple of stores in Bellevue last year, results below:

- Belmar Bellevue  $613\ 116^{th}$  Ave. NE. 2,895 sf with a TG rate of  $26.25\ PMPHT's/1000\ sf$
- Novel Tree 1817 130<sup>th</sup> Ave. NE. 2,400 sf with a TG rate of 31.25 PMPHT's/1,000 sf, pass-by rate of 29.3%.

<sup>\* -</sup> pass-by per ITE and JTE. Inc. experience and data

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -6-

The average trip generation rate of the two sites is 28.75 PMPHT's/1,000 sf and accounting for the fact there will be pass-by traffic type traffic, and using the typical 25% for retail use (actual data indicated 29.3%), yields an effective TG rate of 21.6 net new PMPHT's/1,000 sf. The ITE trip generation rate is 21.83!

A Trip Generation and Parking Study were also conducted at the Issaquah Cannabis Company store located at 230 Juniper Street, per the City request. This store is 2,607 sf in size and is the only store in Issaquah; and thus its draw area is significantly larger than if there were competing facilities in the area. The data was collected between 1600 and 1800 on Thursday September 13, 2018. I also obtained historical traffic data collected in the site vicinity that shows the street PM peak hour at 1645 to 1745. The calculated trip generation rate for the lone Issaquah store is 39.51 PM peak hour trips per 1,000 square feet, say 40. The traffic data is attached.

The Trip Generation for the Green Grotto using the trip generation rate of 40, per the lone existing Issaquah Cannabis Company store data, would project 46 PM peak hour trips, less than a trip per minute, during the adjacent street traffic peak hour. The Green Grotto site is located off a major commuter route and thus it is reasonable to project a good portion of these trips would be pass-by; at 25% the net new traffic is 35 PM peak hour trips.

Issaquah's <u>Transportation Impact Analysis Guidelines</u> identifies the typical traffic threshold for conducting a Traffic Impact Analysis at 30 net new peak hour trips:

A TIA generally will be required if the proposed development or redevelopment will add thirty (30) or more peak hour trips to the transportation system. In some cases, a TIA (or some elements of a traffic study) may be required even if the 30-trip volume threshold is not met, but the City finds that the traffic impacts attributable to the development have the potential to significantly impact the safe and efficient operation of the existing public transportation system. A TIA may also be required for a development located near a sensitive area, a high accident location or an area already suffering from congestion.

The Green Grotto traffic generation based on national data, the industry standard, is projected at 25 PM peak hour trips. And accounting for replacement of the traffic by the residents of the SFDU, the delta result is 24. Data for the lone existing store, Issaquah Cannabis Company, would yield a traffic volume projection of 46 (delta 45 after accounting for the SFDU replacement) at the access, a good portion of these trips would be pass—by. The site traffic disperses to the north and south on East Lake Sammamish Parkway 55/45 to the south and north, respectively, based on the existing traffic volume data. No intersection beyond the site access would be affected by site traffic regardless of which data is used, national or data from the lone existing store in the City!

A critical factor in the trip generation rate for Marijuana Retailing is that these facilities are still relatively new with few options for customers. As more stores become available and the newness factor goes away the trip generation rate for this use is likely to trend down!

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -7-

## Access Review/Safety Inspection

## **Intersection Operations**

Traffic engineers have developed criteria for intersection operations called level of service (LOS). The LOS's are A to F with A and B being very good and E and F being more congested. LOS C and D correlate to busy traffic conditions with some restrictions to the ability to choose travel speed, change lanes and the general convenience comfort and safety.

The procedures in the Transportation Research Board <u>Highway Capacity Manual</u>, 2010 were used to calculate the level of service at the study intersections. The following table depicts the LOS and corresponding average delay in seconds at signalized and stop control intersections:

Intersection			Level of	Service		
Туре	А	В	С	D	E	F
Signalized	<10	>10 and <20	>20 and <35	>35 and <55	>55 and <80	>80
Stop Control	<10	>10 and <15	>15 and <25	>25 and <35	>35 and <50	>50

## LOS Analysis Criteria

The <u>Transportation Impact Analysis Guidelines</u> identify the City operational standards as noted below:

## Intersection Level-of-Service

The intersection level of service (LOS) standard in Issaquah shall be LOS D, as defined by the latest edition of the Highway Capacity Manual. Any development that exceeds the maximum allowable delay at a driveway or local roadway not included in the City's transportation concurrency analysis is considered as having a probable significant adverse impact and will be required to mitigate the impact.

A site access operational analysis was included in <u>Green Grotto Traffic Scoping</u>. The analysis at the E. Lake Sammamish Parkway at SE 51<sup>st</sup> Place showed the intersection operating at acceptable LOS 'D' with the Green Grotto and traffic from the adjacent users.

I also have calculated the site access operation using the Synchro software (v10) program. My analysis included the following scenarios:

- ITE trip generation data and background traffic collected by Greg Heath, PE, PTOE
- Trip generation using data collected at the Issaquah Cannabis Store and background traffic
- And increasing all the traffic using the study intersection by a factor of 10%

Attn: Dave Favour, Development Services Deputy Director

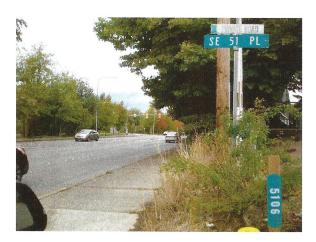
September 24, 2018

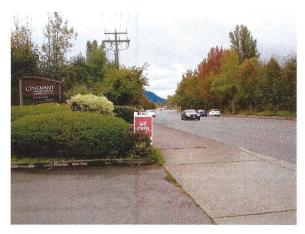
Page -8-

The LOS of the intersection remains at 'D' using the conservative Trip Generation rate derived by the lone Issaquah Cannibals Company Store and factoring up all the traffic by 10 percent! The operational calculations are attached.

## **Traffic Safety**

I have field reviewed the SE 51st Street at East Lake Sammamish Parkway intersection, see photographs below looking to the north and south, respectively:





Good sight lines exist at this intersection, presuming vegetation is maintained appropriately and no signage is in the sight triangle. During my field review some minor pruning of vegetation to the north could be considered and to the south there was a pull sign partially affecting the sight line. These items are easily correctable.

Incident data was reviewed using the WSDOT accident data portal available online at <a href="https://remoteapps.wsdot.wa.gov/highwaysafety/collision/data/portal/public/">https://remoteapps.wsdot.wa.gov/highwaysafety/collision/data/portal/public/</a>. This portal was used to review incidents in the site vicinity. Review of WSDOT incident data for 2015, 2016 and 2017 with only one property damage incident occurring near the access in 2017. The WSDOT data is attached.

Southeast Fifty First Place provides access to four properties, three SFDU's and the Covenant Presbyterian Church. Two of the SFDU's accesses converge prior to connecting to SE 51st. Pl. access onto East Lake Sammamish Parkway. Good sight visibility exists at the convergence of the driveways. Incident review did not reveal any safety issue at the site access.

## Parking Review

Regarding parking, no ITE data exists; however, limited data for a Liquor Store, a comparable LUC, does exist. This LUC data peak parking at 2.98 vehicles per 1,000 sf, thus four stalls are needed (3.45). The parking is turnover type use with short duration use by customers.

Parking Data was documented on 09.13, 2018 and I used the enter/exit site traffic to determine parking utilization. The collected data showed that peak parking was 16 vehicles

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -9-

and the 85<sup>th</sup> parking was 15; aka parking rate of 6.14 and 5.75 per 1,000 sf, respectively. Thus the proposed 1,152 sf Green Grotto needs seven parking spaces, the proposal is to provide eight that includes one handicap.

I also reviewed the IMC  $\underline{18.09.050}$  Table of Off-Street Parking Standards for comparable data. A few data points:

Drugstore/Pharmacy	1 space per 200 sq. ft. GFA
General Retail/Service	1 space per 200 sq. ft. GFA
Specialty Food Store (No Dining)	1 space per 200 sq. ft. GFA
Shopping Center	1 space per 200 sq. ft. GFA; theaters (movie or live) within center must provide individual parking according to the standards within this section; theater GFA is not used to calculate remaining shopping center parking requirement, but used to define specific parking for that use

The City's parking rate is 1 stall per 200 sf for retailing activities. The proposed Green Grotto is 1,152 sf in size and thus per City retail parking, six stalls would be required.

## Summary, Conclusions and Recommendations.

I have prepared this Traffic Analysis in response to City comments. Prior to my involvement in the project a colleague, Greg Heath, PE, PTOE, prepared <u>Green Grotto Traffic Scoping</u> that includes a trip generation projection using national data and an operational review of the SE 51st St at East Lake Sammamish Parkway intersection. This report was prepared consistent with industry standard and showed the site generating less than 30 net new PM peak hour trips

The ITE data, a national resource, added a new LUC 882 for Marijuana Dispensary. The data included 12 sites in a General Urban/Suburban setting. This data indicates a Trip Generation rate of 21.83 PM peak hour trips per 1,000 sf. Jake Traffic Engineering Inc has conducted trip generation studies of marijuana stores on the east side and conducted a study for the existing store in Issaquah, the Issaquah Cannabis Company located at 230 NE Juniper Street. The lone Issaquah store does have a higher traffic generation rate than the national data would project. This is most likely attributable to the fact that it is the only store serving a wide area!

I conducted operational analysis at the SE 51<sup>st</sup> PI. at East Lake Sammamish Parkway intersection using national trip generation data, the trip generation rate derived from the existing store in Issaquah and factoring the traffic volumes up by 10 percent. The access intersection operates in conformance with the City performance standard, LOS D.

Attn: Dave Favour, Development Services Deputy Director

September 24, 2018

Page -10-

Safety inspection of the site and site access did not reveal any recorded incident history at the SE 51st PI. access, one property damage only event occurred a bit north of the access with East Lake Sammamish Parkway. Good sight visibility is provided at the intersection and at the site driveway convergence with SE 51st. PI. that is shared with two other driveways. Vegetation within sight triangles is presumed to be maintained

Parking was also reviewed. The City standard retail parking rate for a retail store is one stall per 200 sf that results in the requirement for six stalls. Parking data was collected at the Issaquah Cannabis Company store. The data from this site would project seven stalls are needed. The proposal includes eight stalls.

Based on my analysis I recommend that Green Grotto be allowed with the following traffic impact mitigation measures.

- Construct site in accordance with applicable City requirements.
- ➤ Ensure vegetation is properly pruned and no signs are placed in the sight line at the SE 51st Pl. at East Lake Sammamish Parkway intersection.
- Pay lawful Traffic Impact Fee.

No other traffic mitigation should be necessary. Please contact me at 206.762.1978 or email us at <a href="mailto:jaketraffic@comcast.net">jaketraffic@comcast.net</a> if you have any questions.



EXPIRES 4/3/2020

Sincerely,

Mark J. Jacobs, PE, PTOE, President JAKE TRAFFIC ENGINEERING, INC.

09.24.2018

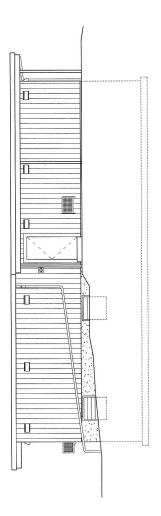
MJJ; mjj

# GREEN GROTTO ISSAQUAH, WA

8620.527.522.13

PLANNING

ARCHITECTURE AND



PROJECT ND: 19-007 DATE: 21 HAR 19 DRAWN BY: LPA SHEET NO: SITE GENERAL NOTES VICINITY MAP TLO COVER SHEET, PROJECT D
10F 2 TOPOSRAPHO SURVEY
2 OF 2 TOPOSRAPHO SURVEY DRAWING INDEX PROJECT DATA SITE AREA PH. 259-152-409 CONTACT: HRE SBUWN SYMBOLS \$\frac{1}{2}\frac{1}\frac{1}{2}\f

PERMIT SET

CONTENTS

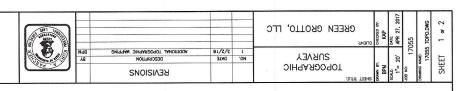
esose aw , Haudassi

22106 SE 51ST PLACE 20000-T19Q2A оттояо изаяо знт

1 GREEN GROTTO

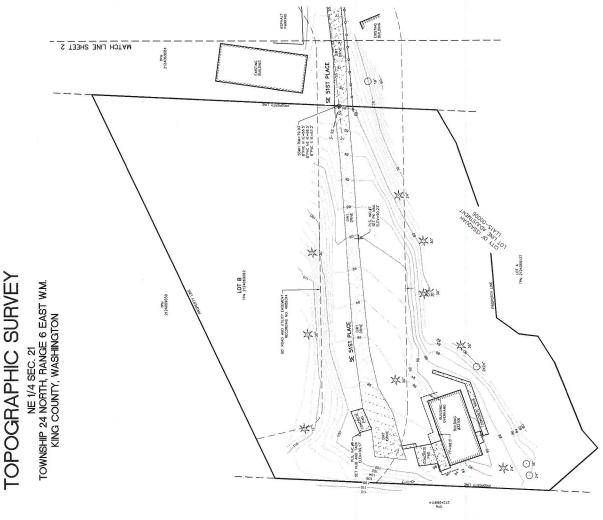
REVISIONS

<u>5</u>



SHORELINE, WA 98177 19124 12TH AVENUE NW свееи свотто, цс







LILTELMERGRADE LILLES SON ON BETCH WHICH SEN LOCKET DRIVE HE FOLD SENTENCE CLOCKED ON THE MANAGEMENT OF HE EMPERGRADE SON ON WHICH CHICA DRIVES AND WHITE MAN LOCKET HE WANT OF CHARACHEE WHITE EMPERGRADE OF UNITES SON CHICAGO AND AND THE WAS TO THE WAS AND THE MANAGEMENT OF THE EMPERGRADE COUNTIES SON CHICAGO AND THE WAS THE WAS TO CHARACHEE WITH THE WAS THE WAS TO CHARACHEE WHITE THE WAS THE WAS TO CHARACHEE WHITE THE WAS THE WAS TO CHARACHEE WHITE THE WAS THE WAS TO CHARACHEE WAS THE WAS THE WAS TO CHARACHEE WHITE WAS THE WAS TO CHARACHEE WAS THE WAS THE WAS TO CHARACHEE WAS THE WAS THE

UTILIT INKER ELEVATIONS, AND PRE / FLOR LUK DAMETERS SHOWN HERGON ARE BASED ON OBSERVATIONS. FROM THE UTILITY STRUCTURE, AND ARE APPROXIMED USEN TO SUSFETY REASONS NO PHYSICAL ENTEY HINTO THE UTILITY STRUCTURE WAS REPROBAD DIRANG THE COURSE OF THIS SURVEY. 12) THE PROPERT AND REGIT\_OF\_MY, UNIS SHOWN HEREON ARE FOR GENERAL REFERENCE ONLY. THEY HAVE RESN CALCOLIFE DAKED OF THE FOUR SEALOUTH OF THE ADJACATES THE LACEDODIS, WHO CONTY RECORDING NO. SHORTSCHOOLD AM FIRE LIFT HE RESULT OF AN INDEPENDENT BUILDING BITES, INC. 13) WE HAVE LISED GRAPHIC SYMBOLS TO REPRESENT SONE FEATURES ON THIS WAP, SUICH AS UTLUTIES, TREES AND FENCES, THE DEFAULT SIZE OF THOSE SYMBOLS MAY NOT REPLECT THE TRUE SIZE OF THE FEATURE THAT WAS WAPPEL

6.) THE MAP CRADICALY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY ONLY, WHICH WESPERGINED DURING APPRI, 2017 AND FERRUARY 2018. THE SUBKEY WAS PREAMED FOR THE EXCLUSING USE OF THE CLENT NAMED HEREON, ITS' USE DOES NOT EXTEND ANY UNMARED PERSON OR PERSONS WITHOUT THE EXPRESS RECEPTIFICATION BY THIS SURVEYOR NAMING SULPS PARTY.

INCOMMINE. 0.0833 FEET = 1 INCH ON THE GROUND

KING COUNTY TAX PARCEL NUMBER: 2124089062 PARCEL AREA: 62,018 ± SO, FT. (1.42 ACRES)

S), <u>Instrument calbration</u>e all vensuring instruments euployed in this survey have been manifared in Accordance with manifacuren's specifications.

1) <u>feld samet wethodoloch</u> field weasurewents for this survey were performed using a 5-second Better electronic total station

33. VERTICAL DATUM: THE VERTICAL DATUM FOR THIS SURVEY IS NAVO 88, BASED WASHINGTON STATE REFERENCE NETWORK.

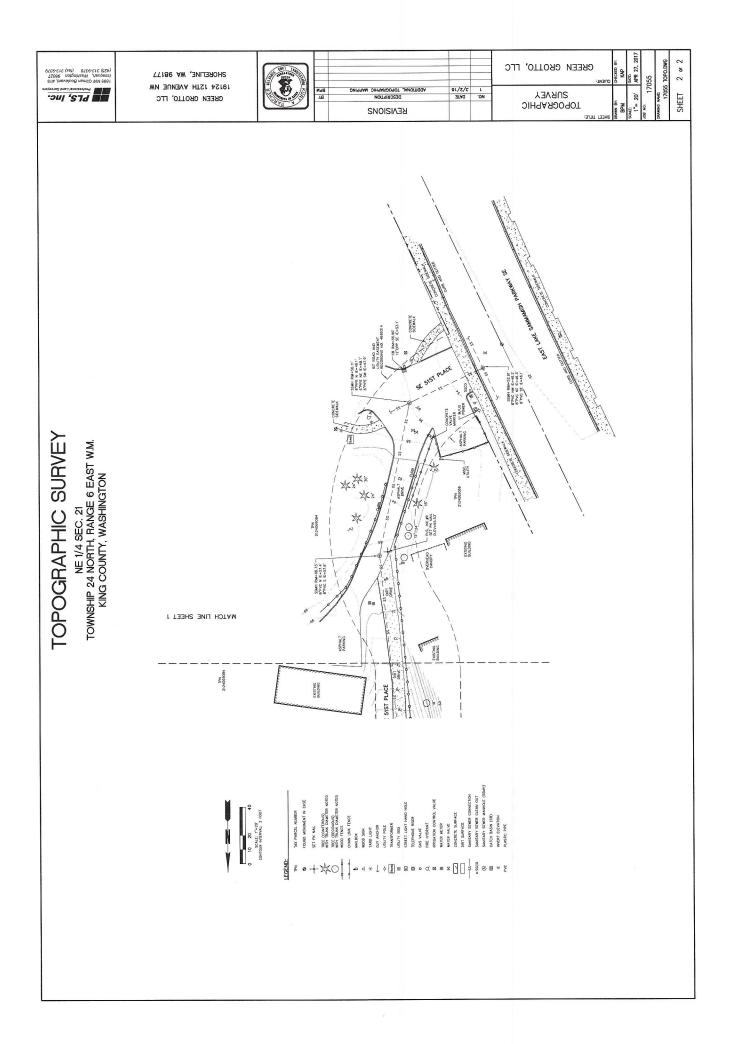
1), PUBPOSE OF SURVEY. THE PURPOSE OF THS SURVEY WAS TO DEVELOP A 2-FOOT CONTOUR INTERVAL, TOPO WAR OF THE SUBSECT PROPERTY FOR USE AS A PLANNING AND DESIGN BASE BY OTHERS. 2), HORZONIAL DAIDAE. THE OVERALL HORIZONTAL DAIDM FOR THIS PROJECT IS NAD 83/2011, WASHINGTON SYSTEM, NORTH ZONE, BASED ON GPS MEASUREMENTS USING THE WASHINGTON STATE REFERENCE NETWORK.

Responsed at The Warthwest Content of the 40 of the first State of the Warthwest Content of the 40 of the

OT B. CITY OF ISSAGUAH SHORT PLAT NUMBER PLNO4—0009B, RECORDING NUMBER MASHINGTON, EXCEPT THAT PORTION THEREOF DESCRIBED AS FOLLOWS:

EGAL DESCRIPTION: PER CITY OF ISSACUAL LOT LINE ADJUSTMENT NO, LLATS-00006, RNG COUNTY RECORDING NO. 20160725900002

-	
YPN	TAX PARCEL NUMBER
ø	FOUND MONUMENT IN CASE
+	SET PK NAIL
水	TREE (CONIFEROUS) WITH TRUNK DIAMETER NOTED
(O	TREE (DECIDINGUS) WITH TRUNK DIAMETER NOTED
+	WOOD FENCE
+	CHAIN LINK FENCE
<b>5</b>	MAILBOX
þ	WOOD SIGN
*	YARD LIGHT
1	GUY ANCHOR
φ	UTLITY POLE
TEANS	TRANSFORMER
	UTILITY BOX
2	STREET LIGHT HAND HOLE
<b>3</b>	TELEPHONE RISER
0	GAS VALVE
α	FIRE HYDRANT
8	IRRIGATION CONTROL VALVE
•	WATER METER
X	WATER VALVE
3	CONCRETE SURFACE
	DIRT SURFACE
- 55	SANITARY SEWER CONNECTION
0.5500	SANITARY SEWER CLEAN OUT
0	SANITARY SEMER MANHOLE (SSM
8	CATCH BASIN (CB)
ā	INVERT ELEVATION
PVC	PLASTIC PIPE



PREPARED SUBGRADE - COMPACT UPPER 12" TO 95% MACANUM DRY DENSITY

SAWOUT EDGE OF DOSTING PAYEMENT AS SHOWN ON THE SURFACING PLAN TO FULL DEPTH OF ASPHALT TO A LICEAN UNMELDING EDGE.

PROPOSED ASPHALT PAVEMENT, SEE PLAN FOR PAVEMENT SECTION

UNDISTURBED EXISTING BASE COURSE

09 PAVEMENT JOINT SECTION

WILL AND FILL 2" AND REPLACE AS PART OF NEW PAVEMENT

PLACE 4" WDE x 1/8" DEEP SQUEEGE FORMED HOT POURED RUBBERIZED ASPHALT OVERBAND JONT SCAL (WSDOT 9-04 tO OR APPROVED EQUAL), TYP.

SAR OLI SUODIH VERTICAL JONI.
APPLY ASPHALT TACK COAT TO
ALL THROUGHLY CLEANED
EXPOSED PAREMENT SURFACES
AMAEDM TELY PROPE TO PANING.

(05) ASPHALT PAVEMENT SECTION SCHION

1/2" TOOLED EDGES TYPICAL 6" U.N.O. ON PUM ASPHUT CONCRETE PAVEMENT -

5" COMPACTED DEPTH CLASS 1/2" HMA PG 64-22 [1 LFT], COMPACT TO 92% OF RICE VALUE

4" COMPACTED DEPTH CRUSHED SURFACING TO COURSE, COMPACT TO 95% MAXIMUM DENSITY -

PREPARED SJBGRADE, COMPACT UPPER 12" TO 955 MAXMUM DENSITY

CONSTRUCTION IN THE CONSTR

CHACE 1' OF 3/4" - 1-1/2" WASHED ROCK OR PEA-GRANEL ON BOTH SDES OF FINCE TO CREATE A BEYEL SHAPE.

ELEVATION

F THE PAD DOES NOT ADSOUNTEY REWORD THE NUMB FROW THE WHINCE PRINGES. THE REMISES SHALL BE WISSO OFF EPETORE TO PARED SHEET. THE REMISES DAME OF DOES NOW AND WASHINGTON TO SHALL BE DONE NOW AND WASHINGTON TO SHALL BRAIN TO A SEDIMENT RETENTING FACILITY OR PROJUCE A SELF FORCE. ADDITIONAL ROCK SHALL BE ADDED PERCONCALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.

SILT FENCE NOTES

01) ROCK CONSTRUCTION ENTRANCE

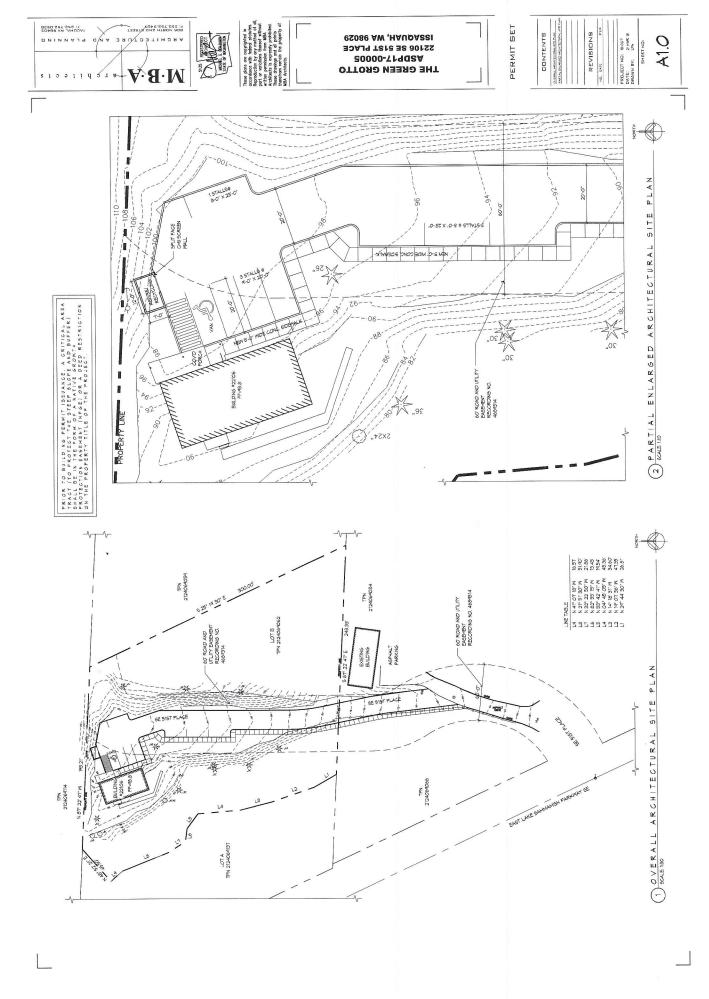
SUBGRADE SEPARATION GEOTEXTILE PER SPECI

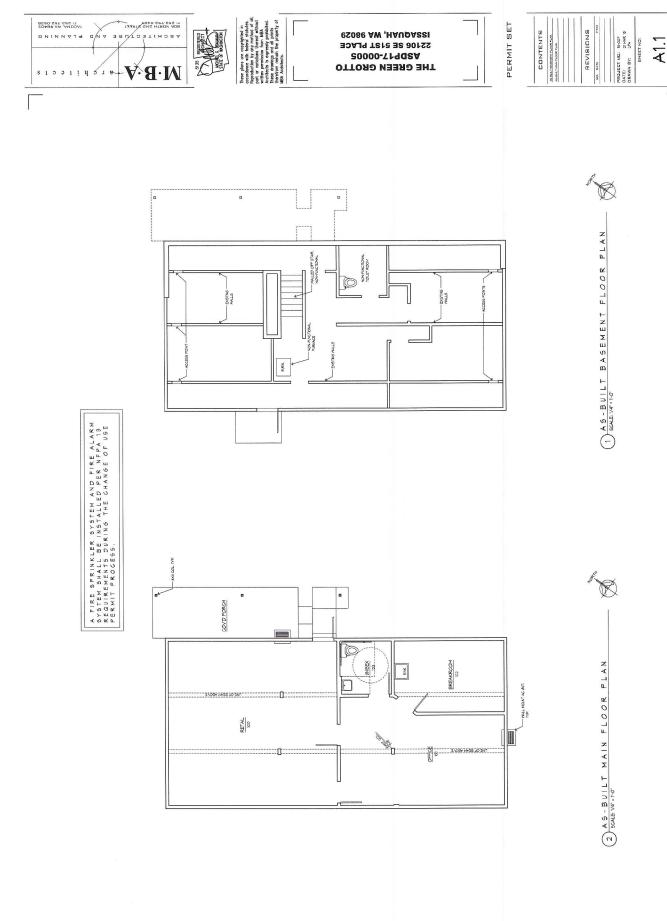
2'x2'x14 GA, WELDED-WRE FABRIC OR EQUA

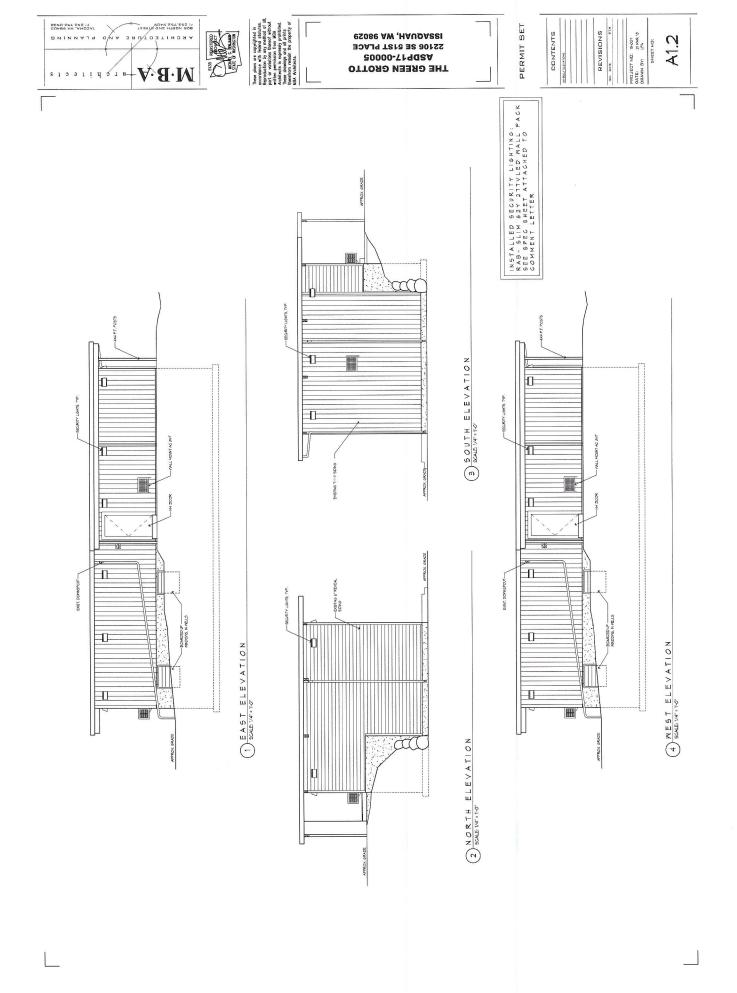
FILTER FABRIC MATERIA MIRAFI 100x OR EQUAL 2'x4' DOUG FR-STAPLE OR WRE R (TYPICAL)

HONSHT "8x"8

CONSTRUCTION ENTRANCE NOTES







**APPENDIX** 





President 2614 39th Ave. SW — Seattle, WA 98116 — 2503 Tel. 206.762.1978 - Cell 206.799.5692 E-mail jaketraffic@comcast.net

January 2018

Resume Letter

Mark J. Jacobs, PE, PTOE 34 years of Professional Experience

Education

BSCE - University of Washington in 1984.

Certifications/Memberships

- Licensed Professional Engineer in the States of Washington and Oregon
- Certified Professional Traffic Operations Engineer by the Transportation Professional Certification Board, Inc.
- Fellow in the Institute of Transportation Engineers
- West Seattle Transportation Coalition Board Member (2015 to present)

## Experience

Jake Traffic Engineering, Inc. has been in business since mid July, 2003. During this time I have prepared and submitted more than 500 traffic reports, a number of traffic engineering letters and have represented Client projects at Public Hearings.

My traffic engineering experience prior to starting my own company is extensive and includes 4.5 years working for the Public (WSDOT and the City of Renton) and 14 years for a private traffic engineering consulting firm.

Over the years I have worked on more than 1,000 traffic engineering projects. I have expertise in the preparation and review of Traffic and Parking studies and associated traffic mitigation requirements. This knowledge extends to intersection operational/safety analysis, site feasibility review, identifying appropriate traffic mitigation, site access analysis, the preparation of technical variance/deviation requests, representing Clients at Public Hearings/Meetings, and traffic channelization and signing plans. I have also prepared a number of traffic signal, illumination, traffic control and traffic calming plans, and have worked on intelligent transportation systems design.





**Development Services** 

1775 – 12<sup>th</sup> Ave. NW | P.O. Box 1307 Issaquah, WA 98027 425-837-3100 issaquahwa.gov

May 17, 2018

Cliff Gehrett 19124 12<sup>th</sup> Ave NW Shoreline, WA 98177

Subject: Permit #ASDP17-00005

Project Name: Green Grotto

Thank you for your resubmittal of information in response to the City's correction letter dated September 13, 2017. The Development Services Department has completed a review of your resubmittal information and has noted several items that must be resolved before the permit review may continue.

Please review and respond to all of the comments on the attached list and revise the drawings as necessary. Additionally, to help the City respond more quickly, please provide a written narrative describing how each comment is addressed and show all revisions to the drawings as "clouded" or otherwise marked.

To avoid delays, please direct all correction submittals and revisions electronically to MyBuildingPermit.com.

If you have particular questions or need clarification relating to any comment, contact the reviewer directly. A list of reviewers, along with their email and phone number, is on the last page.

Sincerely,

DEVELOPMENT SERVICES DEPARTMENT

David Favour

Counter Services Manager

cc:

Staff Reviewers

File



## CORRECTIONS Green Grotto File No. ASDP17-00005 22106 SE 51st Street May 17, 2018

## Engineering (Denise Pirolo, Stacey Rush)

- 1. Compliance is required with 2014 Ecology Storm Water Management Manual for Western WA and 2017 Issaquah Addendum to the City adopted storm design manual. The proposed drainage design is not compliant based on the following reasons:
  - a. Minimum Requirement #7: Provide Standard Flow Control. Hydrologic modeling parameters used to meet an exemption from flow control (less than a 0.15cfs increase in 100yr flow) are incorrect. Projects are required to use "forested" land cover for the pre-developed condition per 2017 Addendum to Storm Water Design Manual (Table 1-1, and Section 2.4.7.3). Submitted design used "existing" conditions (including lawn and impervious area) as the pre-developed condition.
  - b. Drainage Conveyance.
    - Storm water runoff must be adequately captured and conveyed to a public drainage system, or 100% dispersed/infiltrated on site. Proposed drainage plan must include capture, detention, and conveyance of all new and replaced impervious areas, and must include adequate discharge connection from the site (typically to the public storm drainage system). Storm runoff from the existing structure must be captured and conveyed with the proposed storm system.
- Please submit a Traffic Impact Analysis. The analysis guidelines are on our website located at this link.

Response to 1st resubmittal of traffic information: The city has discretion to require a Traffic Impact Analysis when the proposed trips are less than 30 peak hour trips (applicant response shows 25 trips). A Traffic Impact Analysis is required due to: low sample size (4) in the ITE manual; higher trips at the existing marijuana store at 230 NE Juniper Street; intersection of multiple private drive L there ere 12 ways.

The analysis must include and address the following issues:

- a. Project description clarification. The submitted traffic study states on page 2, "The intent clientele of this particular site is to provide for medical distribution of marijuana products and is not intended for retail sales based on discussion with the client." However the application states the use will be a "recreational/medical retail marijuana store". Please clarify the scope of the project. Please also adjust the traffic trips to reflect the intended use of the project.
- Determine the number of generated trips and the number of needed parking stalls during the PM peak period. The number of trips proposed by the applicant to be generated by this land use seems low; the November 2017 counts collected on NE Juniper Street in front of the Issaquah Cannabis Company show higher numbers (counts available from Fay Schafi, Public Works Engineering, Fays@issaquahwa.gov).



## PROJECT NAME: Green Grotto



- Please provide a copy of all pages of the ITE Trip Generation Manual Land Use 882 (especially the description page).
- d. Study three similar marijuana retail stores to determine the number of site generated trips during the PM peak period and the number of needed parking stalls. One of the stores must be the Issaquah store at 230 NE Juniper Street.
- e. Evaluate driveway safety and operations (intersection of multiple private drive ways; pedestrian safety and circulation from East Lake Sammamish Parkway to building; turning movement conflicts and safety issues at multiple intersections along the private drive, turning movement conflicts in and out of the driveway at East Lake Sammamish Parkway, impacts on E. Lake Sammamish Parkway operations, etc.).
- f. Chapter 6.0 and 12.0 requires the drive from East Lake Sammamish Parkway to the building to meet the appropriate cross section shown in Chapter 6.0. Revise the plans to show a full street section or apply for an Administrative Adjustment of Standards to request a reduction to this requirement.
- g. The table of vehicular parking spaces, Chapter 8.10, does not list a marijuana retail store, therefore please provide information to determine the required number of stalls. The process should be similar to the methodology to determine traffic counts: evaluate 3 marijuana retail stores including the 230 NE Juniper Street store to determine the number of parking stalls required to address the peak hour demand. If there is not sufficient parking, identify other parking options such as sharing nearby parking. See the Central Issaquah parking code, Chapter 8.0 for options.
- h. Parking lot layout. Please dimension the distance behind the head-in stalls next to the building. The parking code requires at least 24' back up length. If this can't be met, revise the layout to provide this room.
- Identify improvements and adjust the proposal as needed to mitigate traffic and parking impacts
  identified from the traffic and parking analysis. Improvements may include, but not be limited to,
  vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and
  pedestrian improvements to the private driveway; parking improvements, other improvements as
  may be needed.
- Submit a revised <u>Transportation Concurrency application</u> including the number of new trips determined from the above Traffic Impact Analysis. Pay the associated fee.
- 4. In addition to the letter provided by Heather Burgess, provide more information regarding the 60'easement. Identify the properties on a map showing the location of the Grantees and the Grantors, the location and width of the easement, and the rights of this property to make physical road improvements to adjacent properties. Also address the access and utility easement rights from this property to the property to the north and east. For example, provide documentation showing the proposed parking lot improvements are acceptable within this easement and allow future 60' access and utility improvements to extend to the property north and east of this lot.
- 5. Address the comments of the reviewing authority, Sammamish Plateau Water. See attached.

## PROJECT NAME: Green Grotto



## Land Use (David Favour)

- In addition to the Top of Slope notation on the plans, on all plan sheets shown the location of the Slope Buffer, Building Setback Line from the Buffer, and NGPE. This information is shown on the recorded documents from earlier permits, LLA15-00006 and PLN04-00098.
- 2. It is not clear whether all proposed improvements including drive, parking, sidewalk, and retaining wall improvements are located outside the Buffer. Please overlay improvements on the information above. If a further reduction is requested and possible under the code, then a revised Geotechnical Report, with double peer reviews, will be required to evaluate slope impacts.
- On the Landscape Plan please show tree protection measures prepared by a certified arborist for all existing trees to be disturbed within the dripline.
- Incorporate all parking lot and site changes necessary to address the Traffic and Parking Analysis
  discussed above.
- Retaining walls along parking and sidewalk areas: Provide design details. Show a railing for all retaining walls greater than 30" in height. Provide structural engineering for all walls greater than 4' tall.
- Provide details of the colors and materials of the waste enclosure and doors.
- Revise the building design and elevations to the extent feasible and practical to comply with the <u>Central Issaquah Development and Design Standards</u> focusing on Chapter 14 Buildings, with emphasis on the applicable items in Section 14.4 Ground Level Details.

## Reviewer Contact Information

- CW Christopher Wright, ChrisW@issaquahwa.gov; 425-837-3093
- DF Dave Favour, DaveF@issaquahwa.gov; 425-837-3090
- DP Denise Pirolo, DeniseP@issaquahwa.gov; 425-837-3092
- SR Stacey Rush, staceyr@issaquahwa.gov; 425-837-3089
- JP Jose Pacheco, JoseP@issaquahwa.gov; 425-837-3114
- JRW Jennifer Woods, Jennifer RW@issaquahwa.gov; 425-837-3086
- LK Lon Keirsey, lonk@issaquahwa.gov; 425-837-3113
- DY Doug Yormick, dougy@issaquahwa.gov; 425-837-3083
- LS Lucy Sloman, LucyS@issaquahwa.gov; 425-837-3433
- ML Mark Lawrence, MLawrence@esf-r.org; 425-313-3322
- DM Dan Martinez, DanM@issaquahwa.gov; 425-837-3124
- MW Michelle Wright, MichelleW@issaquahwa.gov; 425-837-3421
- VP Valerie Porter, Valerie P@issaquahwa.gov; 425-837-3094
- RB Ron Blaskovich, RonB@issaquahwa.gov; 425-837-3481
- TM Toni Miller, TomR@issaquahwa.gov; 425-837-3089
- JL Jean Lin, lonk@issaquahwa.gov; 425-837-3103



**Development Services** 

1775 – 12<sup>th</sup> Ave. NW | P.O. Box 1307 Issaquah, WA 98027 425-837-3100 issaquahwa.gov

September 13, 2017

Cliff Gehrett 19124 12<sup>th</sup> Ave NW Shoreline, WA 98177

Subject: Permit #ASDP17-00005

Project Name: Green Grotto

The Development Services Department has completed a review of your project, and has noted several items that must be resolved before the permit review may continue.

Please review and respond to all of the comments on the attached list and revise the drawings as necessary. Additionally, to help the City respond more quickly, please provide a written narrative describing how each comment is addressed and show all revisions to the drawings as "clouded" or otherwise marked.

To avoid delays, please direct all correction submittals and revisions electronically to MyBuildingPermit.com.

If you have particular questions or need clarification relating to any comment, contact the reviewer directly. A list of reviewers, along with their email and phone number, is on the last page.

Sincerely,

DEVELOPMENT SERVICES DEPARTMENT

David Favour

Counter Services Manager

ce: St

Staff Reviewers

File



**Development Services** 

1775 – 12<sup>th</sup> Ave. NW | P.O. Box 1307 Issaquah, WA 98027 425-837-3100 issaquahwa.gov

September 13, 2017

Cliff Gehrett 19124 12<sup>th</sup> Ave NW Shoreline, WA 98177

Subject: Permit #ASDP17-00005

Project Name: Green Grotto

The Development Services Department has completed a review of your project, and has noted several items that must be resolved before the permit review may continue.

Please review and respond to all of the comments on the attached list and revise the drawings as necessary. Additionally, to help the City respond more quickly, please provide a written narrative describing how each comment is addressed and show all revisions to the drawings as "clouded" or otherwise marked.

To avoid delays, please direct all correction submittals and revisions electronically to MyBuildingPermit.com.

If you have particular questions or need clarification relating to any comment, contact the reviewer directly. A list of reviewers, along with their email and phone number, is on the last page.

Sincerely,

DEVELOPMENT SERVICES DEPARTMENT

David Favour Counter Services Manager

cc: Sta

Staff Reviewers

File

DATE OF LAST REVISION: September 13, 2017



CORRECTIONS
Green Grotto
File No. ASDP17-00005
22106 SE 51st Street
September 13, 2017

## Fire (Mark Lawrence)

Due to lack of fire hydrants within 300 feet of structure and limited fire vehicle access a full NFPA 13 fire sprinkler and fire alarm system shall be installed.

## Engineering (Denise Pirolo, Stacey Rush)

- Compliance is required with 2014 Ecology Stormwater Management Manual for Western WA and 2017 Issaquah Addendum to the City adopted storm design manual. Provide a Drainage Report and Stormwater Plans that includes (but is not limited to) significant items such as:
  - a. Issaquah TESC Report & Stormwater Pollution Prevention Plan (SWPPP).
  - Stormwater Technical Information Report addressing minimum requirements #1-9.
  - Stormwater Low Impact Development Analysis, and implementation if feasible, required under minimum requirement #5.
  - Site Specific Soils Report, required to determine feasibility of stormwater low impact development, under minimum requirement #5.
  - Enhanced plus Phosphorus Treatment Standard, under minimum requirement #6, if 5,000sf (or more) new and/or replaced pollution generating impervious area (unless infiltrating on-site).
  - f. Standard Flow Control, required under minimum requirement #7.
- Please submit a Traffic Impact Analysis. The analysis guidelines are on our website <u>located at this link</u>. The analysis must include the following issues:
  - a. Determine the number of generated trips during the PM peak period. Note: There are no land uses in the ITE Trip Generation Manual that fit the description of this particular use. Study three similar land use types with similar size and location (located on major arterial) to determine the number of site generated trips during the PM peak period.
  - b. Safety of turning movements in and out of the driveway at East Lake Sammamish Parkway and at intersections along the private drive.
  - c. Safety of pedestrians traveling to and from East Lake Sammamish Parkway and along the private driveway including adjacent to the church.
  - d. Recommend improvements to mitigate impacts identified from the analysis. Improvements may include, but not be limited to, vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and pedestrian improvements to the private driveway such as pavement, curb, gutter, sidewalk, and landscape planter strip improvements; other improvements as may be needed.
- Submit a <u>Transportation Concurrency application</u> and pay the fee. The number of new trips can be
  obtained from the above Traffic Impact Analysis and inputted into this application to determine the
  fee.



PERMIT NO: ASDP17-00005

DATE OF LAST REVISION: September 13, 2017

PROJECT NAME: Green Grotto



4. Provide more information regarding access easement rights to the property from East Lake Sammamish Parkway. Identify the properties on a map that the submitted easement addresses, the location and width of the easement, and the rights of this property to make physical road improvements to adjacent properties.

Address water and sewer requirements of the reviewing authority, <u>Sammamish Plateau Water</u>. We have not yet received their comments. We will forward them as soon as we receive them.

## Land Use (David Favour)

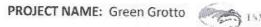
- On the Site Plan, show the location of the Top of Slope, Slope Buffer, and Slope Building Setback from the Buffer. Show that the drive, parking, and sidewalk improvements are located outside the buffer. If a further reduction is requested and possible under the code, then a Geotechnical Report will be required to evaluate slope impacts.
- Provide a Landscape Plan with information as required on the <u>ASDP Submittal Requirements</u>. Include existing tree protection measures. Use Central Issaquah Development and Design Standards, Chapter 10 (Landscape), for direction on landscape planting details.
- Design the Parking Lot and Drive from East Lake Sammamish Parkway to comply with the <u>Central Issaquah Development and Design Standards</u> including Chapter 12 (Circulation) and Chapter 15 (Parking).
- 4. Please see and respond to the attached public comments.
- Note that the steep slope and buffer shall be protected as required by the Critical Areas Ordinance, including IMC 18.10.460-480. Please confirm the following requirements have been met, if not, please plan to complete them:
  - a. Prior to Building Permit issuance, provide a Notice on Title of the presence of a critical area or buffer and that limitations on actions in or affecting such areas or buffers may exist.
  - b. Prior to Building Permit issuance, establish and record a Critical Area Tract to protect the steep slope and steep slope buffer in the form of:
    - A Native Growth Protection Easement (NGPE) dedicated to the City or other public or nonprofit entity specified by the Director, or
    - A deed restriction on the property title of the project (typically conveying responsibility for maintenance to the Homeowners Association with oversight by the City).

Possible NGPE language may read similar to, "Dedication of a Native Growth Protection Easement (NGPE) as shown on the Site Plan, conveys to the public a beneficial interest in the land within the easement. The interest includes the preservation of native vegetation for all purposes that benefit public health, safety and welfare, including control of surface water and erosion, maintenance of slope stability, visual and aural buffering, and protection of land and animal habitat. The NGPE imposes upon all present and future owners and occupiers of the land subject to the easement the obligation, enforceable on behalf of the public by the City of Issaquah, to leave undisturbed all trees and other vegetation within the easement. The



## PERMIT NO: ASDP17-00005

DATE OF LAST REVISION: September 13, 2017



vegetation within the easement may not be cut, pruned, covered by fill, removed or damaged without the express permission from the City of Issaquah. Any such activity in the NGPE area shall require City approval prior to undertaking such work." This draft language, or similar, should be shown on the face of the Site Plan for Development Commission review.

- c. Prior to beginning any site disturbance, place temporary marking of the buffer and building setback marked in the field with yellow caution tape or a chain link fence or other appropriate apparatus as determined by the City.
- d. Prior to Certificate of Occupancy issuance, place permanent survey stakes using iron or cement markers delineating the boundaries between adjoining properties and the critical area tracts.
- e. Prior to Certificate of Occupancy issuance, place permanent signs between the critical area tract
  and adjacent lands explaining the type and value of the critical area (examples available in the
  Public Works Department).
- Note at Building Permit issuance, the project shall pay Impact Fees as outlined in this <u>Impact Fee</u>
   <u>Table and Summary document</u>.
- 7. Address the requirements of 18.07.512 Recreational marijuana facilities including the following:
  - C. Separation Requirements:
  - Only one (1) recreational marijuana facility is allowed in a single tenant space, except a
    marijuana licensee holding both marijuana producer and marijuana processor licenses may locate
    their combined operation in a single tenant space;
  - 2. No recreational marijuana facility shall be permitted within five hundred (500) feet of any other recreational marijuana facility;
  - No recreational marijuana facility shall be permitted within one thousand (1,000) feet of any use specified in RCW 69.50.331 and WAC 314-55-050, including the following:
  - Elementary or secondary school;
  - b. Playground;
  - c. Recreation center or facility:
  - d. Child care center;
  - e. Public park;
  - f. Public transit center;
  - g. Library;
  - h. Game arcade where admission is not restricted to persons age twenty-one (21) and over.
  - D. <u>Application Requirements:</u> An application for a recreational marijuana facility shall include the following information in addition to the application requirements for a Level 2 Administrative Site Development Permit (ASDP):
  - 1. The application shall be made by:
  - a. A marijuana licensee; or
  - b. An applicant for a marijuana license.

The application shall include a copy of the license or a copy of the license application. A permit shall not be issued for a recreational marijuana facility unless the applicant is a marijuana licensee;

 A map drawn to scale showing that the proposed recreational marijuana facility is at least one thousand (1,000) feet from all uses specified in RCW 69.50.331 and WAC 314-55-050. A survey



PERMIT NO: ASDP17-00005

DATE OF LAST REVISION: September 13, 2017

PROJECT NAME: Green Grotto



prepared by a surveyor licensed in the state of Washington may be required by the Director; and 3. The applicant shall submit a copy of the operating plan required by the Washington State Liquor and Cannabis Board as part of the license application.

The City's guideline map from 2015 is provided at this link for reference only. This map is not up to date. We request you provide a map addressing the code above.

- Tree Removal request If trees are requested for removal, provide more information supporting removal of the trees such as an arborist report with <u>ISA Tree Risk Assessment Form</u> completed for each tree.
- Show where garbage, recycling, and yard/food waste containers will be stored. If outside the structure, then they must be screened in accordance with the <u>Central Issaquah Development and Design Standards</u> including Chapter 11.5 Service. Loading, and Waste Enclosures and <u>Solid Waste</u> <u>Service Review & Standards</u>.
- Provide a Community Space in accordance with the <u>Central Issaquah Development and Design Standards</u> focusing on Chapter 7.3.B Nonresidential.
- 11. Revise the building design and elevations as needed to comply with the <u>Central Issaquah</u>

  <u>Development and Design Standards</u> focusing on Chapter 14 Buildings. Due to the unique location and use, please talk with me regarding elements that may not be applicable.
- Identify any proposed exterior lighting fixtures, brightness, shielding, etc. in accordance with the <u>Central Issaquah Development and Design Standards</u>, Chapter 17.

Reviewer Contact Information

CW Christopher Wright, ChrisW@issaquahwa.gov; 425-837-3093

DF Dave Favour, DaveF@issaquahwa.gov; 425-837-3090

DP Denise Pirolo, Denise P@issaquahwa.gov; 425-837-3092

SR Stacey Rush, <u>staceyr@issaquahwa.gov</u>; 425-837-3089 JP Jose Pacheco, <u>JoseP@issaquahwa.gov</u>; 425-837-3114

JRW Jennifer Woods, Jennifer RW@issaguahwa.gov; 425-837-3086

LK Lon Keirsey, lonk@issaquahwa.gov; 425-837-3113

DY Doug Yormick, dougy@issaquahwa.gov; 425-837-3083

LS Lucy Sloman, LucyS@issaquahwa.gov; 425-837-3433

ML Mark Lawrence, MLawrence@esf-r.org; 425-313-3322

DM Dan Martinez, DanM@issaquahwa.gov; 425-837-3124

MW Michelle Wright, Michelle W@issaquahwa.gov; 425-837-3421

VP Valerie Porter, Valerie P@lssaquahwa.gov; 425-837-3094

RB Ron Blaskovich, RonB@issaquahwa.gov; 425-837-3481

TM Toni Miller, TomR@issaquahwa.gov; 425-837-3089

JL Jean Lin, lonk@issaquahwa.gov: 425-837-3103

City of Issaquah
Development Services Department
Attn: Mr. David Favour, Counter Services Manager
PO Box 1307
Issaquah, WA 98027

RECEIVED

JUL 27 2017

OITY OF ISSAQUAH

Re: Notice of Application - Green Grotto Marijuana Retail Store

## HAND DELIVERED

Dear Mr Favour,

As all of the property owners on SE 50<sup>th</sup> Street in Issaquah (directly to the north of applicant's proposed location) and the Dominys, who live on SE 51<sup>st</sup> Place, we would like to go on record as opposing the above referenced application.

The proposed use is extremely out of character with the surrounding neighborhood. It is surrounded by residences on large lots, a church and a dental clinic. Nothing would suggest this is a compatible use with the surrounding properties.

Its access is, at best, awkward and its location is essentially secluded. Since the sale of marijuana is an illegal activity as defined by the Federal government, marijuana retail sales in Washington are totally "all cash". It seems counter intuitive to locate an all cash operation in a secluded location, an invitation to crime.

Additionally, the awkward/obscure access, which appears to meander through a rather large church property, will only leave our street, SE 50<sup>th</sup>, at the mercy of many confused, uninvited and unwanted guests, looking for the "Green Grotto".

For some of the same reasons these types of retail sales are restricted near schools, we are also concerned about our school bus stop located directly at the bottom of SE 50<sup>th</sup> and East Lake Sammamish Parkway.

We encourage the City to deny this application. Virtually, any other location would be more suitable than the one proposed.

Sincerely,

Mark and Erin Roberts 22247 SE 50<sup>th</sup> Street, Issaquah, WA 98029

Dan and Portia Anderson 222xx SE 50<sup>th</sup> Street, Issaquah, WA 98029 Undeveloped 7 Acres – Parcel 212406-9114



Jim and Kathy Agnew 22215 SE 50<sup>th</sup> Street, Issaguah, WA 98029

Jo-Wandre Snyman and Dareia Kapelu 22255 SE 50<sup>th</sup> Street, Issaquah, WA 98029

Roslan Kaluzny 22255 SE 50<sup>th</sup> Street, Issaquah, WA 98029

Chris and Eileen Haubeil 22250 SE 50<sup>th</sup> St, Issaquah, WA 98029

Troy & Rachel Dominy (+3 young boys) 22122 SE 51<sup>st</sup> Pl Issaquah, WA 98029

Richard A. Dominy 22122 SE 51<sup>st</sup> PL Issaquah, WA 98020 (Property Owner) (180 E Westwood LN Union, WA 98592 – mailing address)



July 28, 2017

Sent by Email Only davef@issaquahwa.gov

David Favour, Project Planner / Counter Services Mgr. Development Services Department P.O. Box 1307 Issaquah, WA 98027

Re: Objection to Notice of Application

Project Name: Green Grotto Marijuana Retail Store

File Number: ASDP17-00005

Dear Mr. Favour:

Covenant Presbyterian Church of Issaquah ("Covenant Church") objects to the application identified above for the establishment and operation of a recreational marijuana facility at 22106 SE 51st Place. Green Grotto Marijuana Retail Store ("Green Grotto") at the proposed location will violate the separation requirements under Issaquah Municipal Code 18.07.512 and must be denied.

Covenant Church is located immediately south of the proposed recreational marijuana facility. A map identifying Covenant Church's property and its proximity to Green Grotto is enclosed for your convenience (Exhibit 1). IMC 18.07.512 (C)(3) prohibits recreational marijuana facilities within 1,000 feet of certain uses. Several of those uses occur at Covenant Church every day and are well within the protective radius.

In fact, SE 51st Place is the sole access road to both properties. Every Green Grotto patron will drive through Covenant Church's property when entering and exiting the recreational marijuana facility. Covenant Church's playground is less than 50 feet from the shared roadway. Enclosed is a photograph of the shared access road and close proximity to Covenant Church's playground (Exhibit 2). We have a large congregation of families with young children and the playground is used nearly every day of the week. A better picture of our playground area is enclosed (Exhibit 3).

Our Chapel Building is located just beyond the playground along SE 51st Place and is shown in Exhibit 2. Like the playground, the Chapel Building is directly adjacent to the shared roadway and well within 50 feet. The Chapel Building is a recreational facility and meeting place for many of our church activities. A significant number of the activities that take place in the Chapel Building involve youth and children's ministries, including,

 Sunday School - held throughout the school year and includes 40 or more children ages 4 to 18,

 Youth Group - meets every Sunday evening throughout the school year and includes anywhere from 15 to 20 children ranging from age 13 to 18,

Trail Life - a youth boys' outdoor club that meets throughout the year and ranges widely in numbers and ages, and

 Kids' Choir - meets weekly when choir is in session and includes up of 20 to 25 children ages 5 to 12.

In additional to the youth and children's clubs and programs, Covenant Church also hosts Classical Conversations. Classical Conversations is a homeschool cooperative and serves roughly 85 children ranging in age from 3 to 18. These students attend classes provided through the homeschool cooperative throughout the school year. Our own Covenant Christian Middle School that provides supplemental educational instruction to 20 to 24 children also meets in the Chapel Building, along with other facilities on our property. The students meet at least two days per week during the school year and range in age from 11 to 14.

The Issaquah Police Department is well aware of the past illegal drug activity at 5106 East Lake Sammamish Pkwy (Hanon house). The Hanon house abuts the Covenant Church property and the proposed site of Green Grotto. In addition to the concerns above, we're concerned that a marijuana store will attract additional users of illegal drugs to the Hanon house and multiply the risk to our children. In the past, we've found used drug needles on our property within close proximity to our playground.

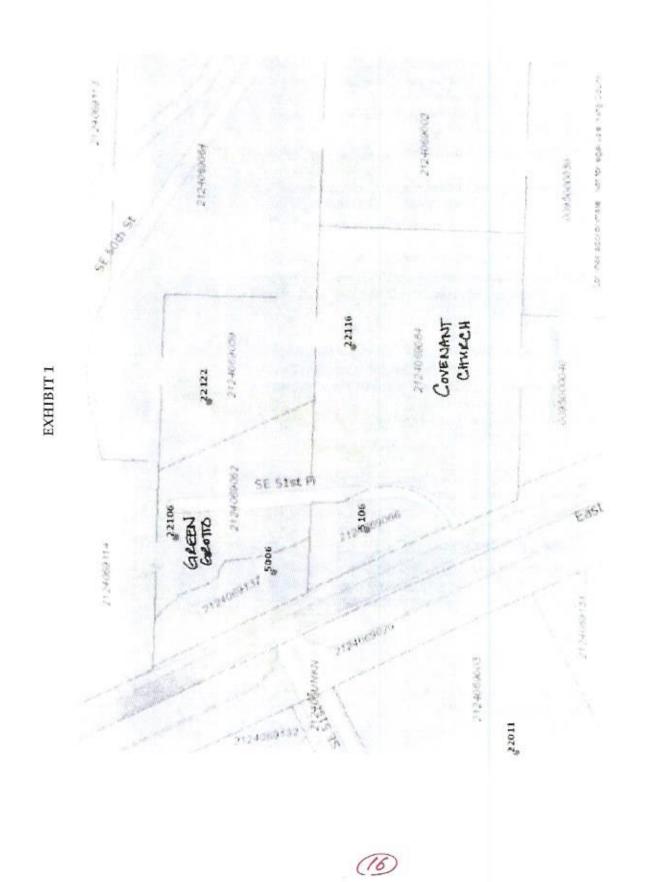
We are gravely concerned about the safety of the youth and children we serve due to the increased traffic on SE 51st Place and threat of illegal drug activity in the area if the proposed application is approved. We believe the presence of Green Grotto and the services provided by the non-profits at Covenant Church are at odds to one another and Green Grotto's presence would impede our ministry and service to the community. It is our hope that we can continue to serve our community by providing a safe place for children to play, to learn, and to receive the support they need.

We ask that you enforce the restrictions provided under the law for this purpose and look forward to notice that the application has been denied. In the meantime, if you need any additional information from us or have questions about the services we provide, please contact me at your convenience.

Sincerely,

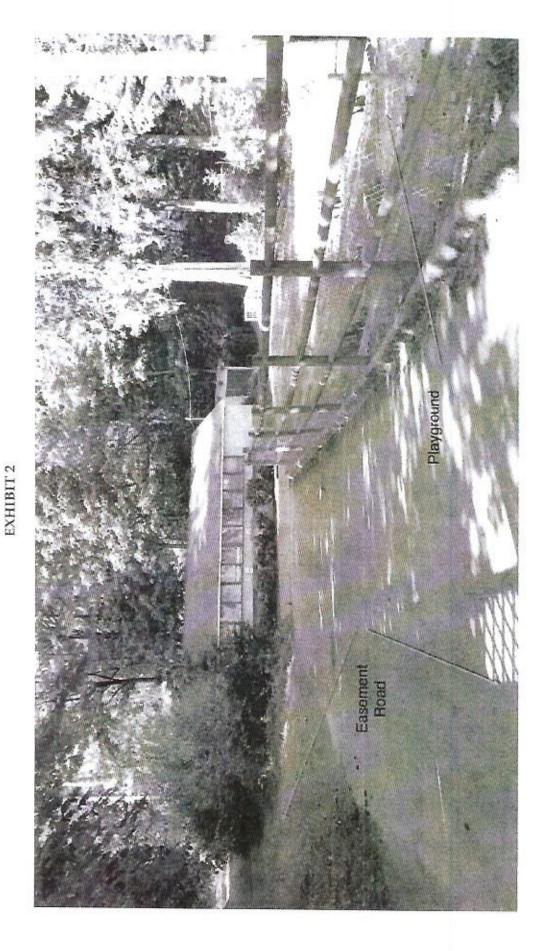
Jon Langdon

1023303 (16900-01)

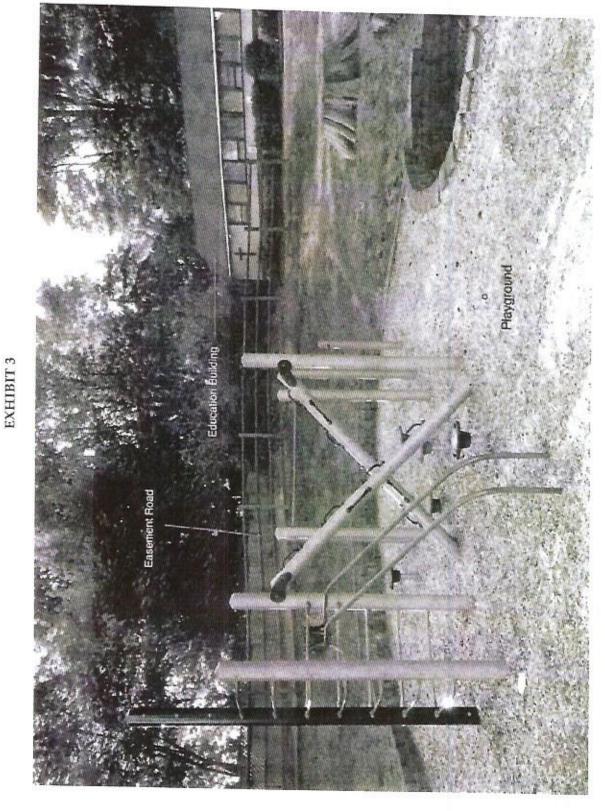




(17)









From: Mark J Jacobs, PE, PTO [mailto:JakeTraffic@comcast.net]

Sent: Friday, September 07, 2018 9:40 AM

To: 'Dave Favour'

Cc: 'Cliff Gehrett'; 'George Garrett'; 'David Fillmore'

Subject: RE: 2018.055 - Green Grotto ASDP17-00005 - City and SPWD Correction Letter

### Dave

Attached is the City's first correction letter regarding the project, Traffic Comments below:

2 Please submit a Traffic Impact Analysis. The analysis guidelines are on our website located at this link. The analysis must include the following issues:

- a. Determine the number of generated trips during the PM peak period. Note: There are no land uses in the ITE Trip Generation Manual that fit the description of this particular use. Study three similar land use types with similar size and location (located on major arterial) to determine the number of site generated trips during the PM peak period.
- Safety of turning movements in and out of the driveway at East Lake Sammamish Parkway and at intersections along the private drive.
- Safety of pedestrians traveling to and from East Lake Sammamish Parkway and along the private driveway including adjacent to the church.
- d. Recommend improvements to mitigate impacts identified from the analysis. Improvements may include, but not be limited to, vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and pedestrian improvements to the private driveway such as pavement, curb, gutter, sidewalk, and landscape planter strip improvements; other improvements as may be needed.

At the time the letter was prepared the ITE <u>Trip Generation</u> 10<sup>th</sup> Edition was being published. This resource provides 12 data points for a Marijuana Dispensary during the PM peak hour ten of them are below the average rate line during the critical PM peak hour, not the four the City noted. Further as more choices become available and the newness factor goes away each store would generate fewer trips.

Greg's Traffic Letter already studied the site access onto ELSP SE and documented it operating at LOS 'D' (taking into account the TWLTL it is better). Greg's data includes traffic from the other uses sharing the access.

Subsequent to the above the City prepared a 2<sup>nd</sup> Comment Letter dated May 17, 2018, pertinent section below:

 Please submit a Traffic Impact Analysis. The analysis guidelines are on our website <u>located at this</u> link.

Response to 1st resubmittal of traffic information: The city has discretion to require a Traffic Impact Analysis when the proposed trips are less than 30 peak hour trips (applicant response shows 25 trips). A Traffic Impact Analysis is required due to: low sample size (4) in the ITE manual; higher trips at the existing marijuana store at 230 NE Juniper Street; intersection of multiple private drive ways.

The analysis must include and address the following issues:

- a. Project description clarification. The submitted traffic study states on page 2, "The intent clientele of this particular site is to provide for medical distribution of marijuana products and is not intended for retail sales based on discussion with the client." However the application states the use will be a "recreational/medical retail marijuana store". Please clarify the scope of the project. Please also adjust the traffic trips to reflect the intended use of the project.
- b. Determine the number of generated trips and the number of needed parking stalls during the PM peak period. The number of trips proposed by the applicant to be generated by this land use seems low; the November 2017 counts collected on NE Juniper Street in front of the Issaquah Cannabis Company show higher numbers (counts available from Fay Schafi, Public Works Engineering, Fays@issaquahwa.gov).

- Please provide a copy of all pages of the ITE Trip Generation Manual Land Use 882 (especially the description page).
- d. Study three similar marijuana retail stores to determine the number of site generated trips during the PM peak period and the number of needed parking stalls. One of the stores must be the Issaquah store at 230 NE Juniper Street.
- e. Evaluate driveway safety and operations (intersection of multiple private drive ways; pedestrian safety and circulation from East Lake Sammamish Parkway to building; turning movement conflicts and safety issues at multiple intersections along the private drive, turning movement conflicts in and out of the driveway at East Lake Sammamish Parkway, impacts on E. Lake Sammamish Parkway operations, etc.).
- f. Chapter 6.0 and 12.0 requires the drive from East Lake Sammamish Parkway to the building to meet the appropriate cross section shown in Chapter 6.0. Revise the plans to show a full street section or apply for an Administrative Adjustment of Standards to request a reduction to this requirement.
- g. The table of vehicular parking spaces, Chapter 8.10, does not list a marijuana retail store, therefore please provide information to determine the required number of stalls. The process should be similar to the methodology to determine traffic counts: evaluate 3 marijuana retail stores including the 230 NE Juniper Street store to determine the number of parking stalls required to address the peak hour demand. If there is not sufficient parking, identify other parking options such as sharing nearby parking. See the Central Issaquah parking code, Chapter 8.0 for options.
- h. Parking lot layout. Please dimension the distance behind the head-in stalls next to the building. The parking code requires at least 24' back up length. If this can't be met, revise the layout to provide this room.
- Identify improvements and adjust the proposal as needed to mitigate traffic and parking impacts
  identified from the traffic and parking analysis. Improvements may include, but not be limited to,
  vehicle turning movement improvements to East Lake Sammamish Parkway; vehicle, bike and
  pedestrian improvements to the private driveway; parking improvements, other improvements as
  may be needed.

The City's reference to small sample size is incorrect, as iterated earlier there are 12 data points during the critical PM peak hour!

Please e-mail me the City traffic data collected at NE Juniper Street. I understand that this store is the only store in the City, thus leaving customers few options. With added options customers are likely to choose to go to a store closer to their home or work location, THUS reducing use of the existing store and reducing traffic affect to the City street grid overall!

Regarding collecting additional Traffic Generation JTE, Inc provided the City some added information on this item; I will include the data with a formal response letter. In addition, I will review the City data provided at NE Juniper Street.

Greg's report included Trip Generation and Operational Review of the access. The City's initial comment requested Safety Review:

### Safety Inspection

I have conducted a safety inspection of the site access on ELSP SE. Good sight lines exist and review of WSDOT incident data for 2015, 2016 and 2017 with only one property damage incident occurring near the access in 2017. I'll include the data with the formal response letter.

The City's 2<sup>nd</sup> comment letter added a request for a Parking Review

### Parking Review

As stated in my August 28, 2018 email

Regarding parking no ITE data exists; however, limited data for a Liquor Store, a comparable LUC, does exist. This LUC data peak parking at 2.98 vehicles per 1,000 sf, thus four stalls are needed (3.45). The parking is turnover type use with short duration use by customers.

I reviewed the IMC <u>18.09.050</u> Table of Off-Street Parking Standards for comparable data. A few data points:

Drugstore/Pharmacy	1 space per 200 sq. ft. GFA
General Retail/Service	1 space per 200 sq. ft. GFA
Specialty Food Store (No Dining)	1 space per 200 sq. ft. GFA
Shopping Center	1 space per 200 sq. ft. GFA; theaters (movie or live) within center must provide individual parking according to the standards within this section; theater GFA is not used to calculate remaining shopping center parking requirement, but used to define specific parking for that use

The City's parking rate is 1 stall per 200 sf for retailing activities. The proposed Green Grotto is 1,152 sf in size and thus per City retail parking requires 6 stalls that are provided.

Parking – the turnover rate is high and data from a Liquor Store use shows that sufficient parking is being provided. Further the City's typical retail parking supply is being provided; this rate should be the applicable value to use for the project. I will conduct a review of Parking Criteria for other local Agencies on this or comparable use and include in the Formal Letter

### Summarizing

ITE Trip Generation 10<sup>th</sup> Edition has 12 data points that I will augment with data I have collected at stores on the eastside. I will include this data with my Formal Response letter. I will also include my safety

review data. Regarding parking the proposed project provides parking per IMC comparable land use; I will conduct further review on this via research of what other Local agencies require.

And finally I request the City data at Juniper Street to review.

Thank you

Mark 206.762.1978

From: Dave Favour [mailto:DaveF@issaquahwa.gov]
Sent: Thursday, September 06, 2018 4:59 PM

To: Mark J Jacobs, PE, PTO

Cc: 'Cliff Gehrett'; 'George Garrett'; 'David Fillmore'

Subject: RE: 2018.055 - Green Grotto ASDP17-00005 - City and SPWD Correction Letter

Mr. Jacobs,

Thank you for your email. We have reviewed your comments with our Public Works Engineering Department and have these comments.

As was stated in our 1<sup>st</sup> correction letter dated September 13, 2017 and the 2<sup>nd</sup> correction letter dated May 17, 2018, the city can require a Traffic Impact Analysis when the proposed trips are less than 30 peak hour trips. As we stated earlier a Traffic Impact Analysis is required due to: low sample size (4) in the ITE manual; higher trips at the existing marijuana store at 230 NE Juniper Street; intersection of multiple private drive ways. We also asked for a Parking Study to determine the required number of stalls.

Your comments provide additional ITE manual information – thank you. However there remain sufficient outstanding issues as outlined earlier that lead us to conclude a Traffic and Parking Impact analysis is required. Once you have provided this information we look forward to reviewing and responding with our comments.

Thank you,

David Favour

Counter Services Manager | City of Issaguah | 425-837-3090

From: Mark J Jacobs, PE, PTO < JakeTraffic@comcast.net>

Sent: Tuesday, August 28, 2018 10:11 AM

To: Dave Favour < DaveF@issaquahwa.gov>

Cc: 'Cliff Gehrett' <cliff@northshorewa.com>; 'George Garrett' <george@northshorewa.com>; 'David

Fillmore' <davidf@sittshill.com>

Subject: RE: 2018.055 - Green Grotto ASDP17-00005 - City and SPWD Correction Letter

Dave

Thank you for the heads up.



From: Dave Favour [mailto:DaveF@issaquahwa.gov]

Sent: Tuesday, August 28, 2018 10:01 AM

To: Mark J Jacobs, PE, PTO

Cc: 'Cliff Gehrett'; 'George Garrett'; 'David Fillmore'

Subject: RE: 2018.055 - Green Grotto ASDP17-00005 - City and SPWD Correction Letter

Mr. Jacobs,

Thank you for your email. We are evaluating the comments and will respond as soon as possible.

Thank you,

David Favour

Counter Services Manager | City of Issaquah | 425-837-3090

From: Mark J Jacobs, PE, PTO < JakeTraffic@comcast.net >

Sent: Thursday, August 23, 2018 12:08 PM
To: Dave Favour <DaveF@issaquahwa.gov>

Cc: 'Cliff Gehrett' <cliff@northshorewa.com>; 'George Garrett' <george@northshorewa.com>; 'David

Fillmore' <davidf@sittshill.com>

Subject: 2018.055 - Green Grotto ASDP17-00005 - City and SPWD Correction Letter

Dave

I have been contacted by the Applicant of the proposed Green Grotto project. They provided me a copy of the Traffic Scoping report conducted by a colleague Greg Heath, PE, PTOE, copy attached.

I have reviewed Greg's report and it is consistent with Industry Standard, ITE has sufficient data for the PM peak hour to make a reasoned trip generation projection. Greg documented the site as generated less than 30 net new PM peak hour trips that is the typical City threshold for further review. Greg also conducted an operational review of the access that showed it will operate satisfactorily.

The attached Architectural cover, the retail space is 1,158 SF (note: the basement will remain unoccupied, since state regulations will require all business in the existing first floor) and I see eight parking stalls including one accessible as being depicted.

JTE, Inc. has conducted a number of reports for Marijuana Stores in the past several years. Prior to the 10<sup>th</sup> Edition of the Trip Generation traffic data for this use was limited. A comparable type use is Specialty Retail that a number of Agencies concurred to. Regarding parking no ITE data exists, however, limited data for a Liquor Store, a comparable LUC, does exist. This LUC data peak parking at 2.98 vehicles per 1,000 sf, thus four stalls are needed (3.45). The parking is turnover type use with short duration use by customers.

Regarding facility Trip Generation, ITE data exists with 12 data points. I had data collected at a couple of stores in Bellevue last year, results below:

Belmar Bellevue - 613 116<sup>th</sup> Ave. NE. 2,895 sf with a TG rate of 26.25 PMPHT's/1000 sf



Novel Tree – 1817 130<sup>th</sup> Ave. NE. 2,400 sf with a TG rate of 31.25 PMPHT's/1,000 sf, passby rate of 29.3%

The average TG rate of the two sites is 28.75 PMPHT's/1,000 sf and accounting for the fact there will be pass-by traffic type traffic, and using the typical 25% for retail use (actual data indicated 29.3%), yields an effective TG rate of 21.6 net new PMPHT's/1,000 sf. The ITE TG rate is 21.83!

Another factor is that these facilities are still relatively new with few options for customers. As more stores become available and the newness factor goes away the TG rate for this use is likely to trend down!

### Summarizing:

I have reviewed Greg Heath's report for the Green Grotto and find that it meets Industry Standards. ITE data for the use is appropriate to use, JTE Inc collected data also documented that the use also includes clients that swing in/out on their way to another destination; aka pass-by trips. Further, there is still are limited options and a newness factor that result in higher trip generation data at this time that is trending down. The ITE data and JTE Inc data (factored for pass-by) show similar traffic generation.

I also inspected site parking. ITE data for a comparable LUC, Liquor Store, projects peak parking at four stalls. The site plan depicts eight that are sufficient.

Based on my review the City has appropriate Traffic Documentation, consistent with Industry Standard, for the project and no further traffic review/study should be needed.

Contact me with any questions.

Thank you

Mark J Jacobs, PE, PTOE

JAKE TRAFFIC ENGINEERING, INC
2614 39<sup>th</sup> Ave. SW

Seattle, WA 98116 – 2503
206.762.1978 o
206.799.5692 c

Collected By: Traffic Count Consultants, Inc.

TIME	INBOUND	OUTBOUND
16:00PM	14	19
16:15PM	19	12
16:30PM	18	19
16:45PM	11	15
17:00PM	13	16
17:15PM	15	15
17:30PM	5	13
17:45PM	22	10
TOTAL	117	119

Probed Trips

33

76 \$ 31

8 37

11 26

8 30 -109

12 32

NOTES: There is a total of 20 parking stalls in the lot. There was 14 vehicles parked in the lot @ 15:59PM. There was 12 vehicles parked in the lot @ 18:00PM.



2,607 St pm Street Pech 1645-1745
39.51

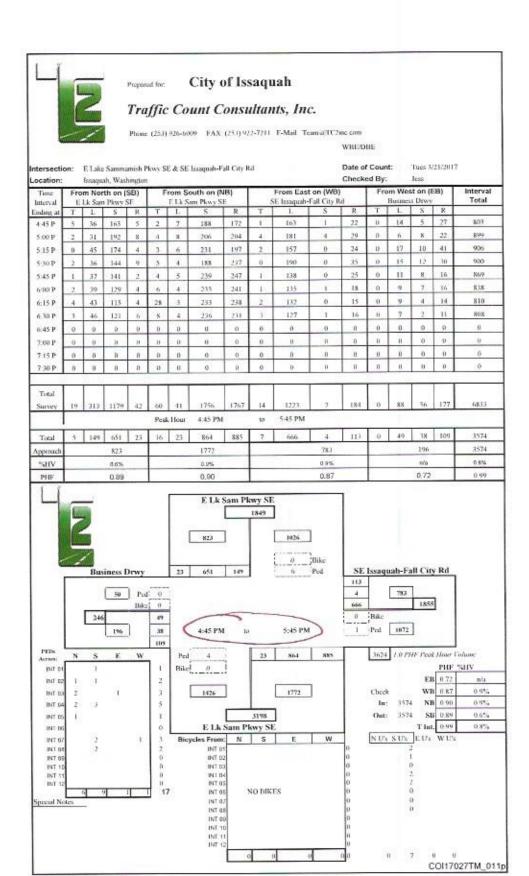
-40

pm Street Pech 1700-1800

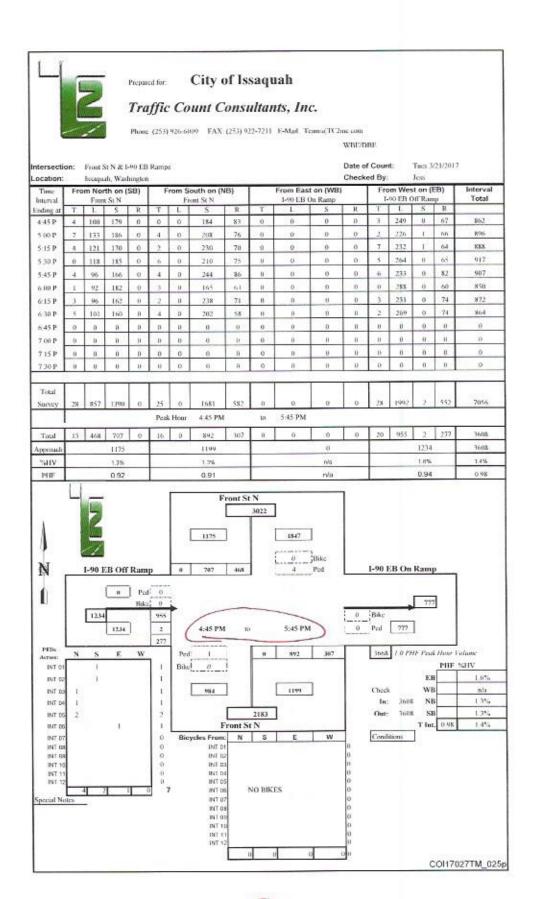
41.81

> 85th Percet Pech 5.75 per 1,000 st

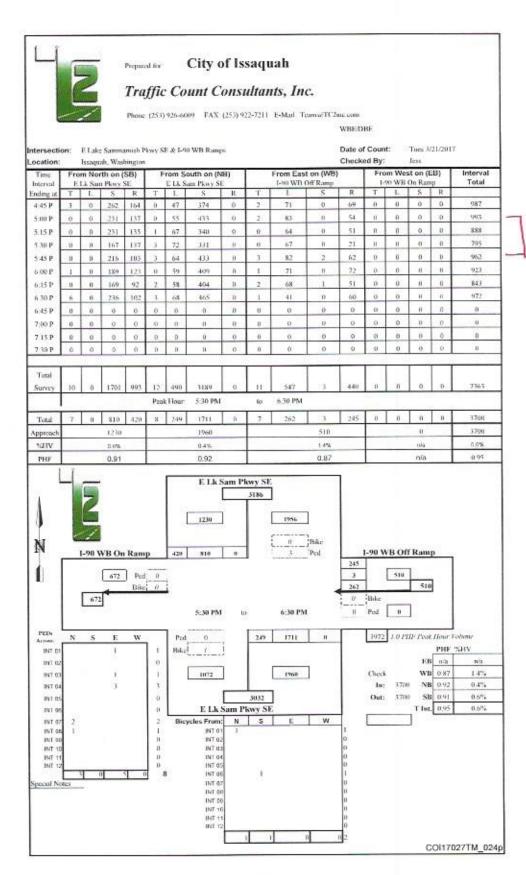
31005 Percent Peching 6.14 per 1,000 st





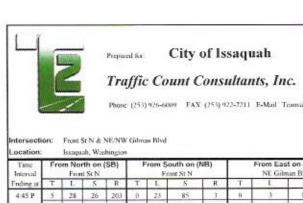






1645-1745





ocation:	on:		St N & 1 ah, Was			in Blvd						Date of Checks		nt:	Tues 3	21/2017	T.
Time Interval	Fro		th on (	SB)	F		outh on (N	(B)		From Eas	t on (WB) nan Blvd			om Wes			Interval Total
inding at	Т	I.	S	R	Т	L	5	R	TI	L	S	R	Т	l.	S	R	Total
4:45 P	3	28	26	203	0	23	85	3	0.1	3	16	28	0	144	23	16	598
5:00 P	6	42	64	181	2	29	92	7	1	8.	28.	62	1	140	28.	21	702
5:15 P	5	24	55	152	2	27	90	1	1	13	19	62	1	142	18	25	630
5 30 P	5	. 31	70	164	4	- 19	77	2	1	- 6	29	53	2	147	16	27	641
5:45 P	- 6	24	79	125	2	26	87	1	0.	8-	13	42	1	166	26	26	623
6:00 P	2	33	106	118	4	19	102	4	2	5	16	37	2	107	14	21	58.2
6.15 P	4	15	105	98	2	17	8.1	- 1	1	- 5	17	51	- 0	156	5	21	572
630 P	2	17	129	97	4	25	95	4	_1_	6	10	74	2	140	8	20	584
6.45 P	: 0	0.	0	0	0	0	0	-0	0	0	n	- 0	- 0	0	0	0	. 0
7:00 P	-0	0	0.	0	0	0	-0	- 0	0	0	- 0	D.	0	0	0	0	0
7.15 P 7.30 P	0	0	0	0	0	0	-0	0	0	0	0	0	0	0	0	a a	0
Total													Г				
Survey	35	214	614	1138	20	185	709	25	7	:34	148.	359	9	1142	138	186	4932
					Peni	Hour	4:45 PM		to	5:45 PM		_	_				
Total	22	121	268	622	10	101	346	13	32	35	199	219	5	595	88	.00	259h
pproach			1011				468				343				78.2		2596
%HV			2.2%	_			0,90	- 4			0.88		-	_	0.90		0.92
- 1						I	1911	1	2171	1160	]						
		NW	Gilma 812	n Blvd Ped Dike	<u></u>	622	268	121	2171		Bike Pod	219 89 35	NE (	Zilman 343	Blvd		
PEDS	×	NW (	812	Ped	<u></u>	622				0	Ped	89	NE (	343	565		infants.
Actinal INT 01 INT 02 INT 00	1 2	1594	782	Ped Bake	3 0 595 88 99	(	268 4:45 PM			6 5:45 PM	Pod	35 0	Peri 2808	343 222 1 6 Ph	565	How 1	55HV 0.6% 0.9%
Artes 3NT 01 INT 02	1 2 1 2	1594 S	782 E.	Ped Bike	3 0 595 88 99	Ped Bike	268 4:45 PM 1 0	i to	101	6 5:45 PM	Pod	35 0	Ped Ped 2808	222 / 6 Ph	EE WI	How I	56HV 0.6%
Actions  INT 01  INT 02  INT 03  INT 06  INT 06  INT 06	1 2 1 2	S 1	812 782 E 1	Ped Bake	3 0 595 88 99 2 3 4 2 3 0	Ped Bike	268 4:45 PM 1 0	ront St	101 862 N	5:45 PM 346 469	rol I	35 0	Ped 2808 Check In:	222 / 6 Ph	EE WI	PHF (190) (193) (193) (193) (193)	16HV 0.9% 0.9% 2.2% 2.2%



Ending at

4:15 P

430P

4:45 P

From North on (SB)

12 347

9 334 0

313

n

E Lk Sam Pkwy SE T L S R

### Prepared for

### City of Issaquah

## Traffic Count Consultants, Inc.

From South on (NB)

SE Front St

382

376

0

0

0

Phone (253) 926-6009 FAX (253) 922-7211 E-Mail. Team@TC2inc.com

WISE/DBI

18

12 0 0 0

12

From East on (WB)

229th Ave SE

n

0

Ü

25

0

From West on (EB)

0

0 0 0

0

0

0

Interval

788

776

764

Intersection: E Lake Sammanish Pkwy SE/SE Front St & 229th Ave SE Date of Count: Wed 3/22/2017

Location: Issaquah, Washington Checked By: Jess

14 0

5.15 P	7	12	324	0	7	0:	410 426	20	0	24	0	16	0	0	0	0	801
5:30 P	4	17	310	0	1	0	408	10	0	29	a	20	0	13	- 0	0	794
5.45 P	3	8	292	0	3	0	481	16	1	24	0	7	0	0	- 0	. 0	828
0.00P	1	7	305	0	3	0	461	8	0	19	0	- 11	0	0	0	0	811
5:15 P	0	0	0	0	0	0	0	0	-0	0	0	0	0	0	0	-0	0
30 P	0	0	0.	D	0	0	0.	0	0	0	0	0	0	ij.	0	0	0
:45 P	0	0	0	0	0	0	0	0	0	0	0	-0	0.	0	0	0	- 0
700 P	0	0	0	0	0	0	0	0	- 10	0	0	0	0	0	a	0	0
Total .			200000		100	0	1345	116	,	175	0	109	0	0	0	0	6381
tervey	36	87	2549	0	31 Peak	Hour	5:00 PM	-	80	6 00 PM	- 11	1 100		-		1 "	0.344
Total	15	45	1231	.0	8	0	1776	54	1	95	0	51	0	0	0	0	3252
proach	7 38		1276	(A)			1830		1		146				0		3252
SHV			1.2%				0.4%				0.7%				n/a		0.7%
PHF			0.95				0.92				0.74				n/a		0.98
N					(		1231	45		3	Boke Pol	51 95	] ]	9th Av	e SE	5	
PEDS	N	s	E	w	( ( ( (	Ped	5:00 PM			6:00 PM	Pol	95	lilike Ped	146	245	k Hour	
	3	s	E	w	i i	Ped Bike	\$:00 PM		<u> </u>	6:00 PM	Ped .	95	lilike Ped	146	246	k Honr PHF B n/a	%HV n/a
Across: INT 01 INT 02 INT 03	2		E	w 2	0 4	12000	\$:00 PM			6:00 PM	Ped .	95	Bake Ped 1112	99 1 0 Pi	248	k Hoar PHF B a/a B 0.74	%HV n/a 0.7%
INT 01 INT 02 INT 03 INT 04	2	s	E	1000	0 4 1	12000	5:00 PM			6:00 PM	Ped .	95	Bake Ped 3312 Check	146 99 1 0 //1	HI- Peur	k Hoar PHF B a/2 B 0 74 B 0 92	%HV n/a 0.7% 0.4%
INT 01 INT 02 INT 03 INT 04 INT 05	2 2		E	1000	0 4 1 2	12000	5:00 PM	1 64	3156	6:00 PM	Ped .	95	Bake Ped 1112	146 99 1 0 Pi	HF Posts WI 2 NI 2 SI	k Hoar PHF B a/a B 0.74	%HV n/a 0.7% 0.4% 1.2%
INT 01 INT 02 INT 03 INT 04 INT 05 INT 06	2 2			1000	0 4 1	Bike	5:00 PM	I M	3156	6:00 PM	Ped .	95	Bake Ped 3312 Check	99  1 0 Pt  1 325:	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 07	2 2			1000	0 4 1 2 1 0 2	Bike	5:00 PM  1 1 326  S S Sycles From	E From	3156 it St	6:00 PM 1776	[Pol	95	Bake Ped 1112 Check In:	99  1 0 Pt  1 325:	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
INT 01 INT 02 INT 02 INT 03 INT 04 INT 05 INT 06	2 2 1	1		1000	0 4 1 2 1 0	Bike	5:00 PM  1  1  1  1326  S  ycles From	E Fron	3156 it St	6:00 PM 1776	[Pol	95	Bake Ped 1112 Check In:	99  1 0 Pt  1 325:	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
Acress: INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 06 INT 06 INT 06 INT 10	2 2	1		1000	0 4 1 2 1 0 2 0 0 0	Bike	S-00 PM  1  1  1326  S  S  S  S  From  Fro	E From	3156 it St	6:00 PM 1776	[Pol	95 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
Across: INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 06 INT 06 INT 06 INT 10	2 2	1	i	1000	0 4 1 2 1 0 2 0 0	Bic	5:00 PM  1 1 2 1326  S yeles From pt 0 pt 0 pt 0	E From	3156 it St	6:00 PM 1776 1830	[Pol	95	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
Acress: INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 06 INT 06 INT 06 INT 10	2 2	1	i	2	0 4 1 2 1 0 2 0 0 0 0 0	Bic	S-00 PM  1  3  1326  S  S  Sycles From  For 0  Bot	E From	3156 it St	6:00 PM 1776 1830	[Pol	95 1 0 0 0 0 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
ACTIONS INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 06 INT 06 INT 06 INT 11 INT 12	2 2	1	i	2	0 4 1 2 1 0 2 0 0 0 0 0	Bic	5:00 PM  1  3  1326  S  S  ycles From NT 0 NT 0 NT 0 NT 0 NT 0 NT 0	E From	3156 it St	6:00 PM 1776 1830	[Pol	95 1 0 0 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
ACTION: INT 01 INT 02 INT 03 INT 04 INT 05 INT 06 INT 06 INT 06 INT 11 INT 12	2 2	1	i	2	0 4 1 2 1 0 2 0 0 0 0 0	Bic	\$ 5:00 PM  1	E From N	3156 it St	6:00 PM 1776 1830	[Pol	95 1 0 0 0 0 0 0 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	MIV
INT 01 INT 02 INT 03 INT 04 INT 05 INT 05 INT 05 INT 07 INT 08 INT 06 INT 07 INT 11 INT 12	2 2	1	i	2	0 4 1 2 1 0 2 0 0 0 0 0	Bic	5:00 PM  1	E From N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3156 it St	6:00 PM 1776 1830	[Pol	95 1 0 0 0 0 0 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	HF Posts WI 2 NI 2 SI	k Honz PHF B n/a B 0.74 B 0.92 B 0.95	%HV n/a 0.7% 0.4% 1.2%
INT 01 INT 02 INT 03 INT 04 INT 05 INT 05 INT 06 INT 07 INT 08 INT 08 INT 08 INT 10 INT 10 INT 10	2 2	1	i	2	0 4 1 2 1 0 2 0 0 0 0 0	Bic	5:00 PM  1  3  1326  S  S  FOT 3  FOT	E From	3156 it St S	6:00 PM 1776 1830 E	Fed	95 0 0 0 0 0 0 0 0 0	Bake Ped 1112 Check In:	99 1 0 Pri	EH EH Peur	# Hone PHF   PHF	%HV n/a 0.7* 0.45 1.25





16:00-18:00 Thursday, November 16th 2017

Collected By: Traffic Count Consultants, Inc.

Trip Generation Study Novel Tree

JTE17140M - Novel Tree Bellevue, Washington 1817 130th Ave NE

	Pedestrias (No	Pedestrian Walk-Ups (No Car)	Driv	Driveway	Novel Tree from Par	Novel Tree Customers from Parked Cars	Pass-b	Pass-by Stops	World C	World Cup Service
TIME	IN	OUT	N	OUT	IN	OUT	Right In/Out	Left In/Our	N	TIIO
16:00	0	-	6	61	8	13			-	·
16:15	0	0	15	9	10	-	0		- 0	4 0
16:30	8	4	10	91	6	16	9		-	-
16:45	1			14	00	10	9		-   0	- 0
17:00	1	0	90	00	0		-	-		
17:15	100	2	6	10	273	Ch)II	- 6	- 6	-	s ,
17:30	0	-	=	00	10	7	20,00		t (	η.
17:45	-	0	5	10	8	=	4	+ (	7	
JTAL:	7	6	89	0.1	27	1		4		

Store sells both product and paraphernalia/accessories. NOTES:

Parking lot was completely full @ 16:30.

= 31.25 PM HT/ 6003 54

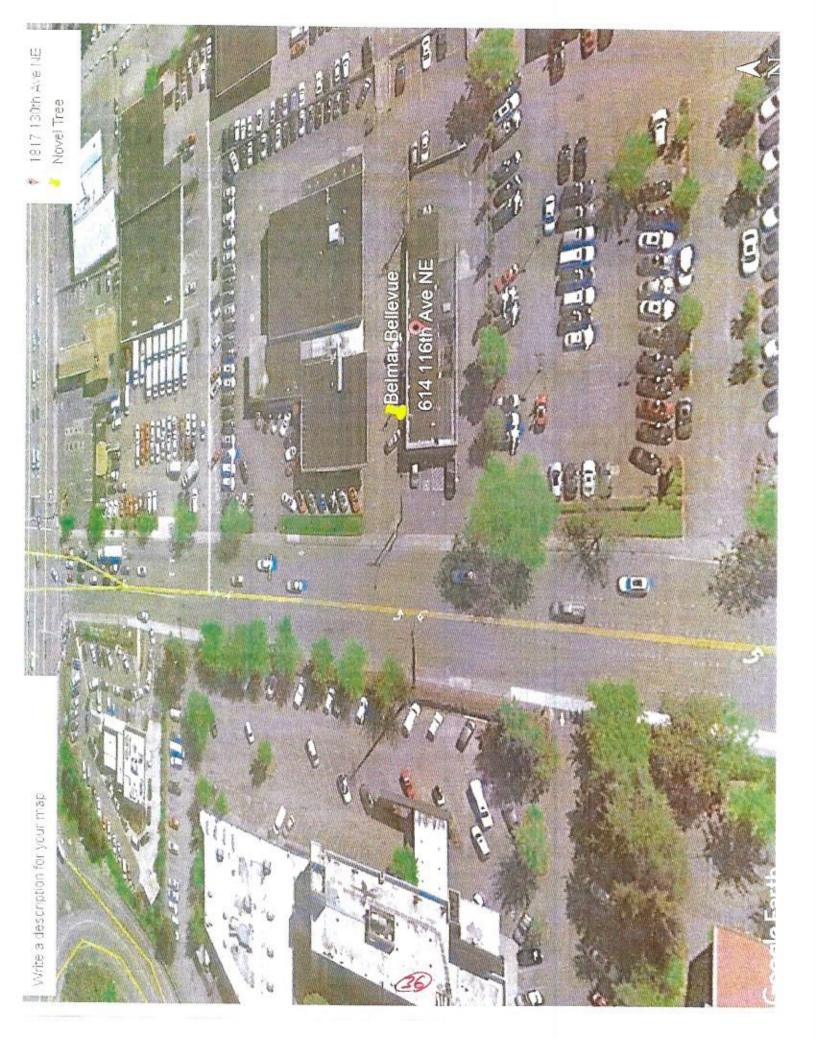
29.3% 11 22



# Proposed for Jake Traffic Engineering, Inc.

ntersect ocation			Ave Ni			e Drwy	3					Date of	f Cour		Thurs	11/16/20	117
Time Interval	Fre		Ave NI		1		outh on (I dr. Ave NF	NB)		From Eas		1		om We			Interv
Ending at	Т	1	- 5	8.	T	1.	S	R	T	L	0 S	R	T	Novel T	ree Day	R	Total
4 15 P	2	0	95	4	0	5	76	- 0	0	0	0	0	0	In-	0	3	199
4-30 P	1	0	74	-11	1	- 4	68	0	-0	0	- 0	0	. 0	5	D	1.	169
4.45 P	0	0	101	b	3	4	71	0	0	0	0	0	0	8	0	8	198
5 00 P	1	0	77	9	1	-1	54	0	-0	0	0	п	0	8	0	- 5	172
5:15 P 5:30 P	1	0	108	4	2	4	101	ú	Ü	0	0	0	G	4	0	4	225
5 45 P	0	0	82	3	1	1	79	0	-0	0	0	0	0	7	0	1	180
6:00P	0	0	36	6	0	5	67	.0	0	- 0	0	0	0	,	0	3	172
6:15 P	0	0	71	0	0	0	73	0	0	0	0	0	0	1	0	2	159
6 30 P	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	- 0
6.45 P	0	0	0	0	0	n	0	0	0	0	0	0	0	0	- 0	0	- 6
7 00 P	0	0	0	11	ti	0	0	0	0	0	0	0	0	0	-0	0	0
			7		-		-	-						.0	1 4	0 1	0
Total			ē	0.0				100		A III TO THE							
Survey	7	0	694	53	3	26	504	0	0	- 0	- 0	0	0	-61	0	30	1468
					Peak	Hour.	4 30 PM	S	10	5.30 PM			-			-	
Total	4	0	368	27	7	12	320	0	0	0	6	0	0	27	0	21	775
ppmach			395			-	332				0	1	-		48	-	775
"aHV			1.0%	- Ulas			2.1%				1/2	-			11/2	-	14%
PHIE			0.88	10			0.79			-11-31	n/s					-	
1		2				[	130	th Ave	NE 742	347	700				0.75		036
PERS. ACTION BY 1 02 02 11 02 02 02 11 02 02 02 11 02 02 02 02 02 02 02 02 02 02 02 02 02	N 2	Novel S	Tree		4 0 27 21 0 0 1	27 (Ped		th Ave	_	_/;	Bike Ped		950	1014		Hour to	obone!

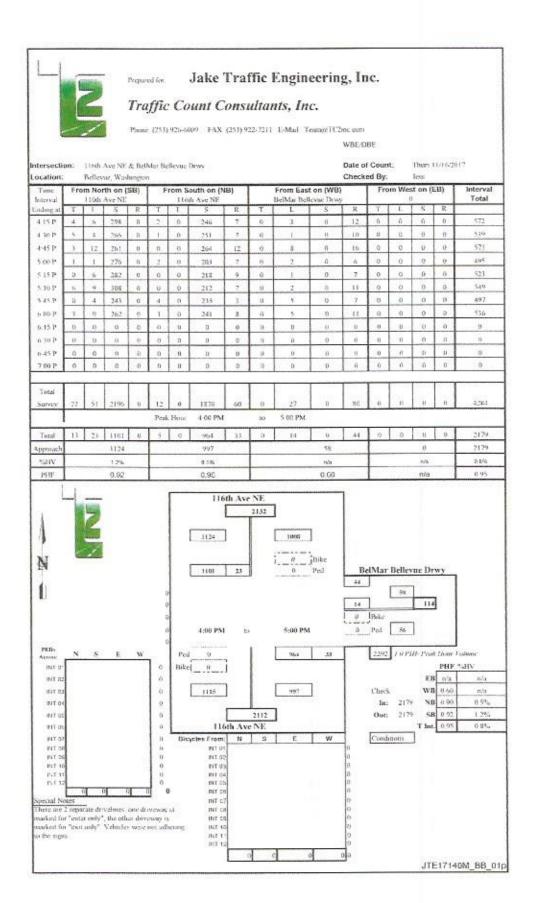




		n Walk-Ups (Car)	Driv	veway	BelMar i			onic Auto
TIME	IN	OUT	IN	OUT	IN	OUT	IN	OUT
16:00	6	10	13	15	9	15	4	0
16:15	2	1	- 11	11	11	10	0	1
16:30	2	2	24	24	12	8	12	16
16:45	4	3	8	8	4(35)	7(40)	4	1
17:00	6	4	15	8	10	11	5	0
17:15	5	4	16	13	12	11	2	2
17:30	6	2	7	12	9	9	0.	3
17:45	3	4	17	16	11	10	6	6
TOTAL:	34	30	111	107	78	81	33	29

NOTES: Store sells both product and paraphernalia/accessories. Vehicles were making u-turns in roadway in the vicinity of the project site. Vehicles were using the driveway to turn around in. Vehicles were dropping people off on the road-side at the drivelines then leaving in same direction they were headed.

76/2,095 = 26.25 PMPATS/LOODS+



Intersection						
Int Delay, s/veh	0.2			War Programme Co.	N. S. Contraction	and the same of the
		11155	A I S	MES	001	000
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	*		个		7	**
Traffic Vol, veh/h	9	5	1526	9	6	1212
Future Vol, veh/h	9	5	1526	9	6	1212
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None	THE P	None
Storage Length	0	174	-	-	50	+0
Veh in Median Storage	e,# 2	-	0	-	-	0
Grade, %	0	94	0	0.00	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	1	0	0	1
Mymt Flow	9	5	1606	9	6	1276
WWIIL FIOW	9	3	1000	9	0	12/0
Major/Minor	Minor1		Major1	1	Vlajor2	e Mich
Conflicting Flow All	2261	808	0		1615	0
Stage 1	1611	-	_	-	-	- 127 -
Stage 2	650				-	-
Critical Hdwy	6.8	6.9	-	-	4.1	-
Critical Hdwy Stg 1	5.8	0.0		-	-	21
Critical Hdwy Stg 2	5.8				-	-
Follow-up Hdwy	3.5	3.3		-	2.2	2
Pot Cap-1 Maneuver	36	328		Million	409	
					409	29
Stage 1	152		-	1:-	-	
Stage 2	487	-	-	10/4		-
Platoon blocked, %			. 2	1/2		2
Mov Cap-1 Maneuver		328	-	-	409	-
Mov Cap-2 Maneuver	137					
Stage 1	150		-	-	-	1
Stage 2	487			*		-
3						
Approach	MAID		MD	and the same	CD	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.1	
HCM LOS	D					
Minor Lane/Major Mvi	mt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)		-		173	409	-
HCM Lane V/C Ratio					0.015	-
HCM Control Delay (s		E VIII		27.7		
	7	100				
HCM Lane LOS				D	В	
HCM 95th %tile Q(vel	1)	-	-	0.3	0	-

Intersection						
Int Delay, s/veh	0.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	T	WOIL	<b>†</b>	TADAY	3	<b>†</b> †
Traffic Vol, veh/h	14	- 11	1526	14	11	1212
Future Vol, veh/h	14	11	1526	14	11	1212
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop	None		None		None
					- 50	None
Storage Length	0	-			50	
Veh in Median Storage,			0	With the P	ili one	0
Grade, %	0	-	0	-		0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	1	0	0	1
Mvmt Flow	15	12	1606	15	12	1276
Major/Minor A	Minor1		Major1		Major2	177
Conflicting Flow All	2276	811	0		1621	0
Stage 1	1614	011	-		1021	
Stage 2	662		-	ALL DE POST		-
Critical Hdwy	6.8	6.9		or the second	4.1	
Critical Hdwy Stg 1	5.8	0.5		100	Mr. I	-
	5.8		-			
Critical Hdwy Stg 2			-	11 - 11 A S		
Follow-up Hdwy	3.5	3.3	2	(14-)	2.2	-
Pot Cap-1 Maneuver	35	327	-	-	407	-
Stage 1	151			THE RESERVE TO SERVE		
Stage 2	480	-		-	-	-
Platoon blocked, %	2.0			27	112000	70
Mov Cap-1 Maneuver	34	327		100	407	7
Mov Cap-2 Maneuver	134	7.	-	15		51
Stage 1	147		-	West to	-	-
Stage 2	480	1.00		100	15	- 5
Approach	WB	10 10 1	NB	-	SB	
HCM Control Delay, s	28.2		0	The State of the S	0.1	ACCUMUM
HCM LOS	D		U		0.1	
TIGW EOS	U					
Minor Lane/Major Mvm	t	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)				181		-
The state of the s		-	-	0.145	0.028	
HCM Lane V/C Ratio				1000	4 4 4	
				28.2	14.1	-
HCM Lane V/C Ratio				28.2 D	14.1 B	

Water Will				Name of Street			
0.4	A STATE OF THE STATE OF	- marriage					
NIES C							
	WBR		NBR				
35				1			
14	11	1526	14	11	1212		
14	11	1526	14	11	1212		
0	0	0	0	0	0		
Stop	Stop	Free	Free	Free	Free		
17 200	None	1000	None	-	None		
0	-	4	-	50	-		
# 2	-	0		1	0		
0	-	0	923	-	0		
95	95	95	95	95	95		
0	0	1	0	0	1		
16	13	1767	16	13	1403		
No. or other		Univer		Anic O			
THE REAL PROPERTY.				_	^		
			0				
	-	-	990				
					-		
	-			- 12	23		
	-		-		-		
		-	22		20		
	289	-	11-	353	-		
		-	12	12	21		
444	-	-	150	1 - 5	-		
		-	-		50		
	289	-	-	353	-		
109			-	35	-		
119		-		-	-		
444	( <del>-</del>		43				
WB		NB		SB			
		U		W) 1			
D							
nt	NRT	NRR	WBI n1	SBI	SRT		
	1101	HUIT		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			
		m,	0.193		-		
	- 4		U. 130	0.000			
				156			
No.	- 17		34.7	15.6 C			
	14 0 Stop 0 ,# 2 0 95 0 16 Minor1 2503 1775 728 6.8 5.8 3.5 24 124 444 23 109 119	WBL WBR  14 11 14 11 0 0 Stop Stop - None 0 - # 2 - 0 0 - 95 95 0 0 16 13  Minor1   12503 892 1775 - 728 - 6.8 6.9 5.8 - 5.8 - 3.5 3.3 24 289 124 - 444 -  23 289 109 - 119 - 444 -  WB  34.7 D	WBL WBR NBT  14 11 1526 14 11 1526 0 0 0 0 Stop Stop Free - None - 0 ,# 2 - 0 0 - 0 95 95 95 0 0 1 16 13 1767  Minor1 Major1 2503 892 0 1775 728 6.8 6.9 - 5.8 5.8 5.8 3.5 3.3 - 24 289 - 124 444  23 289 - 109 119 444  WB NB 34.7 0 D	WBL         WBR         NBT         NBR           14         11         1526         14           14         11         1526         14           0         0         0         0           Stop         Stop         Free         Free           - None         - None         0         -           0         - 0         -         -           0         - 0         -         -           95         95         95         95           0         0         1         0           16         13         1767         16    Minor1  Major1  Major2  Major2  Major3  Major	WBL         WBR         NBT         NBR         SBL           14         11         1526         14         11           14         11         1526         14         11           0         0         0         0         0           Stop         Stop         Free         Free         Free         Free           - None         -         -         -         50           # 2         -         0         -         -           0         -         0         -         -           95         95         95         95         95           0         0         1         0         0           16         13         1767         16         13           1775         -         -         -           728         -         -         -         -           6.8         6.9         -         4.1         -         -           5.8         -         -         -         -           3.5         3.3         -         -         2.2           24         289         -         -         353	WBL         WBR         NBT         NBR         SBL         SBT           14         11         1526         14         11         1212           14         11         1526         14         11         1212           0         0         0         0         0         0           0         0         0         0         0         0           Stop         Stop         Free         Free         Free         Free           - None         - None         - None         - None         0         0           0         0         0         0         0         0           95         95         95         95         95         95         95           0         0         1         0         0         1         1403           Minor1         Major1         Major2	WBL   WBR   NBT   NBR   SBL   SBT

(http://www.wsdot.wa.gov)

# Summary Reports - Total Crashes by Year

Report Year: 2017

Report Location: City of Issaquah

Report Jurisdiction: All Roads

crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any Under 23 U.S. Code 148 and 23 U.S. Code 409, safety data, reports, surveys, schedules, list complied or collected for the purpose of Identifying, evaluating, or planning the safety enhancement of potential action for damages arising from any occurrence at a location mentioned or addressed in such report, surveys, schedules, lists, or data.

Notes | Charts Data

Map Map

Additional crash data available by clicking on map marker.





9/7/2018, 8:32 AM 1 of 1

(http://www.wsdot.wa.gov)

# Summary Reports - Total Crashes by Year

Report Year: 2016

Report Location: City of Issaquah

Report Jurisdiction: All Roads

crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any Under 23 U.S. Code 148 and 23 U.S. Code 409, safety data, reports, surveys, schedules, list complied or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential action for damages arising from any occurrence at a location mentioned or addressed in such report, surveys, schedules, lists, or data.

Notes Notes Charts Data



Additional crash data available by clicking on map marker.



(93)

9/7/2018, 8:33 AM 1 of 1

(http://www.wsdot.wa.gov)

# Summary Reports - Total Crashes by Year

Report Year: 2015

Report Location: City of Issaquah

Report Jurisdiction: All Roads

crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any Under 23 U.S. Code 148 and 23 U.S. Code 409, safety data, reports, surveys, schedules, list complied or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential action for damages arising from any occurrence at a location mentioned or addressed in such report, surveys, schedules, lists, or data.

**⊘** Map Notes | Charts 🔳 Data







9/7/2018, 8:35 AM 1 of 1

### GREEN GROTTO TRAFFIC SCOPING

City of Issaquah, WA



Prepared for: Cliff Gehrett

c/o David Fillmore

Sitts & Hill Engineers, Inc.

4815 Center Street

Tacoma, WA 98409



# GREEN GROTTO TRAFFIC IMPACT ANALYSIS

### I. INTRODUCTION

The scoping is to provide the city of Issaquah with traffic information to determine whether additional analysis is required. Appendix A of the Transportation Impact Guidelines provides guidance as to the information needed by the city to make their determination.

### II. PROJECT DESCRIPTION

The Green Grotto project proposes to repurpose an existing structure containing 2,304 square feet which includes a basement and first story of 1,152 square feet per floor. Given regulations of the state, the only occupancy of this building by the business is the 1,152 square feet associated with the upper floor. The basement would remain unoccupied.

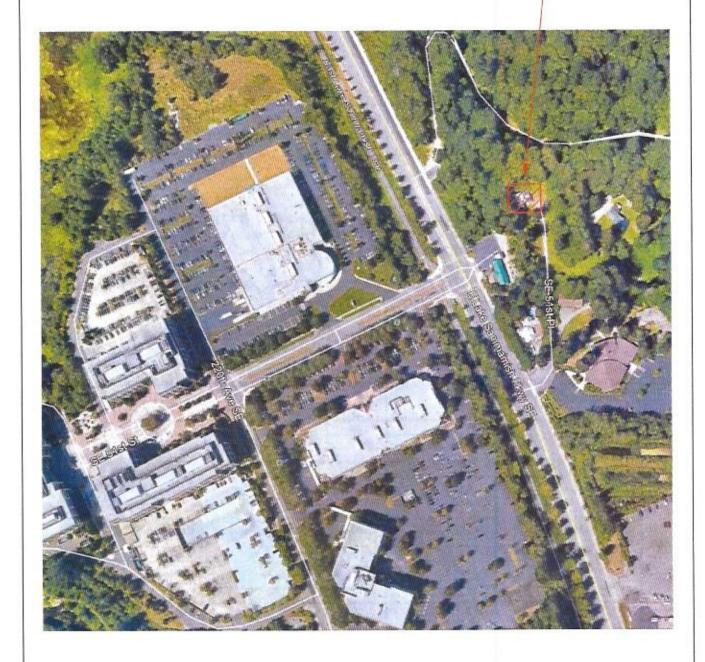
The intent clientele of this particular site is to provide for medical distribution of marijuana products and is not intended for retail sales based on discussion with the client.

The project is located on the east side of East Lake Sammamish Parkway SE with access via SE 51<sup>st</sup> Place. The site is located on tax parcel number 2124069062 in the City of Issaquah. The address is listed Access to the site will be provided by a the existing driveway onto SE 51<sup>st</sup> Place with eventual access to East Lake Sammamish Parkway SE. The immediate area surrounding the site is a mix of residential, commercial and a church. Buildout and occupancy of the project is expected within the next year.

Figure 1 shows the project location and surrounding arterials. The proposed site plan showing the overall building configuration and points of access is given in Figure 2.



### PROJECT SITE



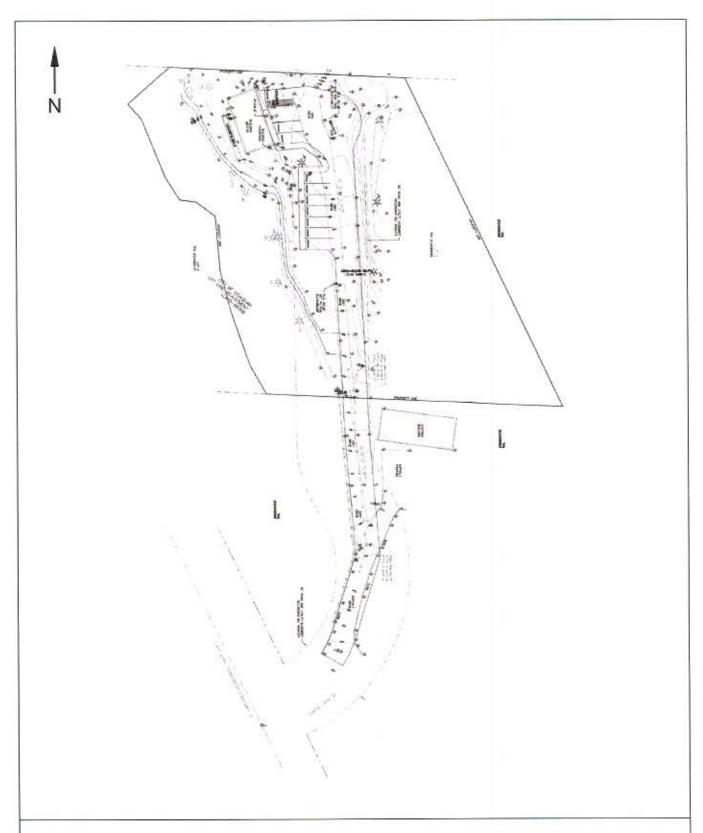
### **HEATH & ASSOCIATES**

TRAFFIC AND CIVIL ENGINEERING

### **GREEN GROTTO**

VICINITY MAP & ROADWAY SYSTEM FIGURE 1





**HEATH & ASSOCIATES** 

TRAFFIC AND CIVIL ENGINEERING

**GREEN GROTTO** 

SITE PLAN FIGURE 2



### III. TRAFFIC INFORMATION

### A. Surrounding Arterials

The main road servicing the project is East Lake Sammamish Parkway. The roadway is a generally north-south city arterial located just west of the project. The posted speed limit in the vicinity of the project is 40 mph, and pavement surfacing consists of asphalt with curb, gutter and sidewalks and a walking/bicycle trail located on the west side. Lane widths are generally 12 feet. Grades are generally flat. The roadway has two lanes of travel in each direction with a two way left turn lane across the SE 51st Place connection.

### B. Peak Hour Volumes

Field data for the project was recently collected in March 2018 and is attached as information for the city review. The PM peak hour traffic count were taken during the evening peak period between the hours of 4 PM and 6 PM at the intersection of SE 51<sup>st</sup> Place and East Lake Sammamish Parkway SE. Shown in Figure 3 is the PM peak hour at the intersection. Turning movement data can be found in the appendix. The turning movements indicated activity outbound form the roadway near 4 PM but little activity during the intersection peak hour which occurred later.

### C. Trip Generation

This use was recently added to the ITE Trip Generation 10<sup>th</sup> Edition under Marijuana Dispensary (LUC 882). Excerpts from the ITE Trip Generation Manual are attached. Table 1 shows the Average Weekday Daily Trips (AWDT), AM peak hour trips, and PM trip generation volumes for the proposed total 1,152 square feet of occupied space.

TABLE 1
Project Trip Generation – 1,152 sf LUC 882

Time Period	<b>Volume</b>
AWDT	291 vpd
AM Peak Inbound	7 vph
AM Peak Outbound	5 vph
AM Peak Total	12 vph
PM Peak Inbound	13 vph
PM Peak Outbound	12 vph
PM Peak Total	25 vph

Based on the city of Issaquah Transportation Impact Analysis Guidelines a TIA is generally required if a proposed development adds 30 or more peak trips to the transportation system. The projected trip generation for this site anticipates 25 trips in the PM peak hour and 12 trips during the AM peak hour.

### D. Distribution & Assignment

Trip distribution describes the process by which project generated trips are expected to disperse to the adjacent street. The trips generated by the project are expected to follow the general trip pattern as shown in Figure 3 which reflects the adjacent street pattern.

### E. 2018 Level of Service

In order to determine the effect of project traffic on the SE 51<sup>st</sup> Place access to East Lake Sammamish Parkway, a level of service analysis was performed by adding project traffic to the manual count data. The results are attached to the appendix and the congestion levels expected with trips from the project added would be at LOS D for westbound traffic emanating from SE 51<sup>st</sup> Place. The total peak hour volume to and from SE 51<sup>st</sup> Place is 15 inbound and 14 outbound including Green Grotto traffic.

East Lake Sammamish Parkway SE has a two way left turn lane allowing for a two-step merge maneuver into southbound traffic from SE 51<sup>st</sup> Place. In addition, signals along the Parkway at both SE 51<sup>st</sup> Street and SE 56<sup>th</sup> Street create regular gaps in Parkway traffic.

### IV. CONCLUSIONS

The trip generation for the project does not exceed the 30 trip threshold generally established by the city of Issaquah.

A preliminary review of LOS with traffic from the dispensary added shows that LOS D could be expected for the 14 total trips exiting SE 51<sup>st</sup> Place during the PM peak hour.

It is assumed that traffic impact fees would need to be calculated by the city of Issaquah for this new ITE use and paid prior to building permit.

# E. LAKE SAMMAMISH PKWY SE & SE 51ST PLACE PROJECT TRAFFIC COMBINED VOLUMES BACKGROUND 1212 0 12126 NEW PM PEAK HOUR TRIPS INBOUND: 13 VPH OUTBOUND: 12 VPH 1526 9

HEATH & ASSOCIATES
TRAFFIC AND CIVIL ENGINEERING

**GREEN GROTTO** 

2018 PM PEAK HOUR VOLUMES FIGURE 3

## GREEN GROTTO TRAFFIC SCOPING

**APPENDIX** 

# Marijuana Dispensary

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies 4 Avg. 1000 Sq. Ft. GFA 2

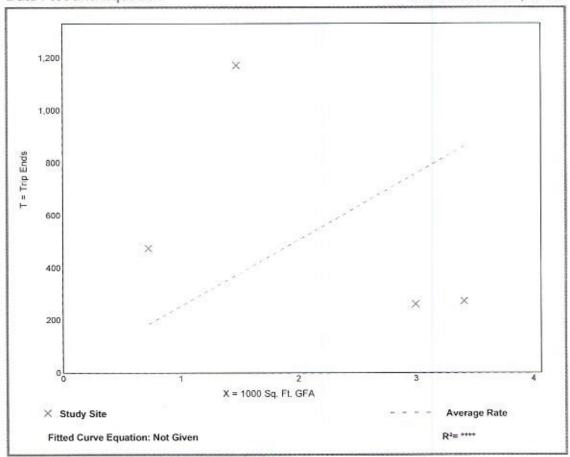
Directional Distribution 50% entering, 50% exiting

### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
252.70	79.74 - 791.22	336.11

### Data Plot and Equation

### Caution - Small Sample Size



Trip Generation Manual, 10th Edition . Institute of Transportation Engineers

## Marijuana Dispensary

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies. 4 Avg. 1000 Sq. Ft. GFA 2

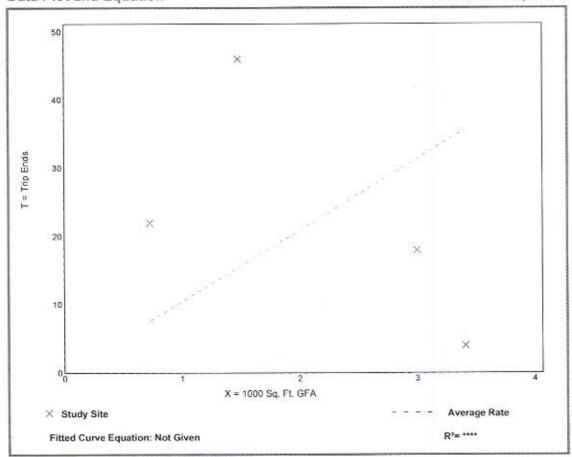
Directional Distribution 56% entering, 44% exiting

### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation		
10.44	1,17 - 31,08	14.00		

### Data Plot and Equation

### Caution - Small Sample Size



Trip Generation Manual, 10th Edition . Institute of Transportation Engineers

# Marijuana Dispensary

(882)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

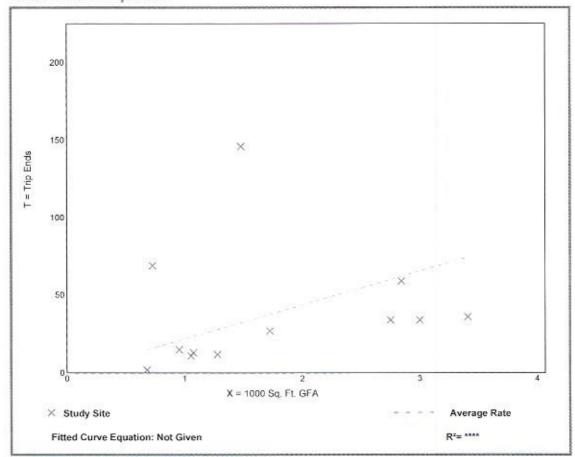
Number of Studies: Avg. 1000 Sq. Ft. GFA.

Directional Distribution 50% entering, 50% exiting

### Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
21.83	2.94 - 98.65	27.36

### Data Plot and Equation



Trip Generation Manual, 10th Edition . Institute of Transportation Engineers

### Heath & Associates, Inc. 2214 Tacoma Road Puyallup, WA 98371

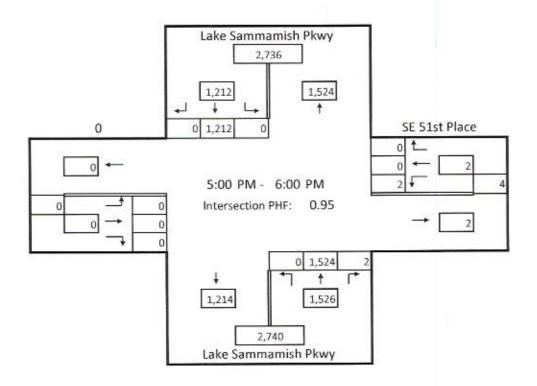
Date of Count: 3/7/2018

Project Name: Green Grotto

Intersection: E. Lake Sammamish Pkwy SE & SE 51st Place

Jurisdiction: Issaquah Project Number: 4058

Time	E. Lake		bound namish Pk	wy SE	Westbound SE 51st Place				Northbound E. Lake Sammamish Pkwy SE				Eastbound				
Period	HV	R	T	L	HV	R	T	L	HV	R	T	L	HV	R	Т	L	Total
4:00 PM	1	0	295	0	0	3	0	6	0	0	310	0	0	0	0	0	614
4:15 PM	2	0	296	0	0	0	0	1	2	0	315	0	0	0	0	0	612
4:30 PM	2	0	327	0	0	0	0	1	0	1	354	0	0	0	0	0	683
4:45 PM	2	0	301	0	0	0	0	1	3	0	350	0	0	0	0	0	652
5:00 PM	3	0	297	0	0	0	0	1	1	0	387	0	0	0	0	0	685
5:15 PM	1	0	316	0	0	0	0	0	0	2	400	0	0	0	0	0	718
5:30 PM	2	0	299	0	0	0	0	1	1	0	376	0	0	0	0	0	676
5:45 PM	1	0	300	0	0	0	0	0	0	0	361	0	0	0	0	0	661
Total	14	0	2,431	0	0	3	0	11	7	3	2,853	0	0	0	0	0	5,301
Peak Hour	5:00	PM	to	6:00	PM												Total
Peak Total	7	0	1,212	0	0	0	0	2	2	2	1,524	0	0	0	0	0	2,740
Heavy Veh.		0	.6%			0.0%				0.2%				W/V =	778		
PHF		0	.96		0.50				0.95								



Intersection Int Delay, s/veh 0	.2		601210 - NA	1.00					
nt Delay, s/ven 0									and the same of th
Movement	WBL	WBF	3	NBT	NBR	SBL			
Lane Configurations	N. W.			1		7	个个		
Traffic Vol, veh/h	9		5	1526	9	6	1212		
Future Vol, veh/h	9		5	1526	9	6	1212		
Conflicting Peds, #/hr	0		)	0	0	0	0		
Sign Control	Stop	Sto	)	Free	Free	Free	Free		
RT Channelized		None	е	-	None	-	None		
Storage Length	0		-	12	-	100	-		
Veh in Median Storage, #	1		-	0	23	-	0		
Grade, %	0		2	0	- 2	-	0		
Peak Hour Factor	95	9	5	95	95	95	95		
Heavy Vehicles, %	0		)	1	0	0	1		
Mvmt Flow	9		5	1606	9	6	1276		
375600145350550									
Major/Minor	Minor1			Major1		Major2			
Conflicting Flow All	2261	80	8	0	0	1615	0		
Stage 1	1611								
Stage 2	650			0.2	8 8	2			
Critical Hdwy	6.8	6.	9	102	2 3	4.1	-		
Critical Hdwy Stg 1	5.8			02	8 9	77.			
Critical Hdwy Stg 2	5.8			- 1			1		
Follow-up Hdwy	3.5	3.	3	-	8 2	2.2	-		
Pot Cap-1 Maneuver	36	32			3 2	409	7.		
Stage 1	152	02				100			
Stage 2	487								
Platoon blocked, %	401						12		
Mov Cap-1 Maneuver	35	32	8			409	1		
Mov Cap-1 Maneuver	115	02			S 69	400			
Stage 1	150					2	- 4		
Stage 2	487			32		-			
Stage 2	401					1 0000 8			1
Approach	WB			NB		SB			IV. WA
HCM Control Delay, s	31.6			0		0.1			
HCM LOS	D					77.			
Minor Lane/Major Mvmt	NBT	NBRWBL	1 SBL	SBT					
Capacity (veh/h)	-	- 15		-					
HCM Lane V/C Ratio	9.70		8 0.015	-					
HCM Control Delay (s)	6701	- 31							
HCM Lane LOS	000		D B	15					
HCM 95th %tile Q(veh)		- 0							

Baseline

Synchro 10 Report Page 1

